

Notes

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Barr Marine By EDM 100 Douglas Way

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INTRODUCTION

Business Philosophy

Barr Marine by EDM, a pioneer in the marine engine component replacement field, was founded in 1933 by Horatio W. Barraclough, Sr. under the name Marine Salvage. Today, Barr Marine by EDM is the last and only U.S. Manufacturers of inboard parts in the World and offers the largest selection of inboard parts available for immediate shipment. The foundation of this growth began in 1933 with Barr Marine's customer-centered philosophy. Simply stated, we know the products and since 1933 our staff has made it a point to answer questions promptly while providing diagrams and dimensions for added technical support.

Redefining the Industry

There are several distinctive factors that separate Barr Marine by EDM from the competition:

- More variety. More available configurations. More hard to find parts. Barr Marine offers in stock availability of the largest selection of inboard marine parts
- · Barr Marine is the only manufacturer that paints replacement components to match original manufactures colors
- · Superior Quality and a 3 Year Limited Warranty on exhaust manifolds, risers and exhaust connectors
- · Manifolds and Risers include all mounting gaskets and hardware
- All castings have a thicker interior wall and are packed in foam for added protection prior to shipping and storage
- · Same-Day Shipment on orders entered by 3:00pm Eastern Standard Time USA (UPS Shipments)
- On-Time delivery
- Toll-free technical support 866-255-9265

8-1/2"

· World-Wide distribution

When you're ready to take the performance of your parts distribution company to a whole new level, contact Barr Marine by EDM.



-6-1/8

2-9/16

9-1/2



During the operation of any marine engine-gas or diesel-exhaust gases are produced and must be removed from the engine and conducted outside the boat. While there are two basic exhaust systems, wet and dry, the wet system is the one most often found in pleasure boats as well as many work boats. This system mixes the exhaust gases with engine-cooling water and then discharges them through the transom of the boat via an exhaust line.

Exhaust Manifold

Attached to the engine is an exhaust manifold with its exhaust inlets matching the exhaust outlet ports of the engine. Circulating cooling water through the water jacket surrounding the exhaust gas chamber cools this manifold.

Exhaust Connector

At the exhaust end of the manifold is an exhaust connector. This connector is an intermediary between the manifold and an exhaust hose or pipe. This connector also mixes the exhaust gases with water to further cool the gases, and it operates as a means for directing the gas and water outflows so that a connection can be made between the manifold and the exhaust tubing.

Particular attention must be paid to the relative height difference between the center line of the exhaust end of the center line of the transom overboard exhaust fitting, the exhaust connector can an be exhaust dump or drop of a convenient angle.

In those instances where the manifold is not appreciably above or is below the overboard fitting, an exhaust riser is used. By design, the riser acts as a dam to keep both exhaust-cooling water and seawater from back flooding into the engine and destroying it.

Back Pressure

From an engineering viewpoint, the most critical design requirement for exhaust systems is to limit the backpressure on the engine to a minimum. Backpressure is the pressure that builds up in the exhaust manifold engine exhaust outlets. The lower the pressure in the exhaust, the more efficient the operation of the engine. Low backpressure is achieved by designing exhaust passages to minimize resistance to the flow of gases and to prove for a uniform gas flow away from all cylinders.

Barr manifolds and exhaust connectors are designed to minimize backpressure. In many cases, after replacing an OEM manifold with Barr replacement parts, more r.p.m.'s are achieved.

Replacement Exhaust Systems

8-1/2"

When the need arises to replace an OEM-installed manifold and/or exhaust connector, one of the three situations will exist: replacement of both manifold and connector, replacement of the manifold only, or replacement of the exhaust connector only.

When replacing both manifold and connector, normally there are no problems in matching, and connection to existing exhaust lines is usually very easy. When replacing just the manifold or just the exhaust connector, problems can arise in matching the replacement part to the existing part. Barr recognizes these problems and, wherever possible, has provided the necessary adaptors for connecting a Barr replacement manifold or exhaust connector to original exhaust parts.



11 0

2-9/16

-6-1/8

9-1/2"

Dart

Part Number

COMPLETE LIST OF BARR CONVERSION MANIFOLDS

ENGINE APPLICATION

PART NUMBER

BV-1-57

BV-1-67

BV6-1-75

CAT-1-3208

MC-1-0120

CHV-1-5557

CHV-1-63

CHVA-1-58

CHVA-1-65

CHVA-1-84**

CHVA-1-92#

CHV-1-83**

CHV-1-92#

CHD-1-82

DD-1-501

DD-1-3710

DD-1-4710

DD-1-6710

FM-1-83**##

FM 1 7275

FM-1-5457

FM-1-6268

FE-1-58

OR-1-73

OR-1-73

FM-1-6970##

Part Number

2-9/16

FC-1-60

C-1-6364

Buick V8: 364, 401 & 425 C.I.D.; 1957-66 Buick V8: 400, 435 & 455 C.I.D.; 1967-76 Buick V6: 198, 225 & 231 C.I.D.; All Models Caterpillar V8 Diesel: 636 C.I.D.; Naturally Aspirated Chevrolet 4 Cylinder: 153 & 181 C.I.D. Chevrolet 6 Cylinder: 194, 230, 250 & 292 C.I.D.; 1962-75 Chevrolet V8 OHV: 235 & 283 C.I.D.; 1955-57 Chevrolet V8 OHV: 305, 307, 327, 350 & 400 C.I.D.; 1962 Up Chevrolet V8 OHV: 348 & 409 C.I.D. 1958-65 Chevrolet V8 OHV: 396, 427 & 454 C.I.D.; 1966 Up Chevrolet V8 OHV: 396, 427 & 454 C.I.D.; 1966 Up Chevrolet V8 OHV: 396, 427 & 454 C.I.D.; 1966 Up Chevrolet V8 : Fits All Small Block Chevy 283-400 C.I.D. Chevrolet V8 : Fits All Small Block Chevy 283-400 C.I.D. Detroit Diesel V8: 6.2 Liter Detroit Diesel V8: 8.2 Liter Detroit Diesel: 3/71 & 6V/71 Detroit Diesel: 4/71 & 8V/71 (Will Fit Early 92 Series/Call Barr) Detroit Diesel: 6/71 & 12V/71 (Will Fit Early 92 Series/Call Barr) Ford Falcon, Comet 6 Cylinder 144 & 177 C.I.D.; 1960-64 Ford V8: Fits 260, 289, 302 & 351 C.I.D. (Windsor Models Only) Ford, Lincoln, Mercury: 460 C.I.D.; All Years Ford & Mercury V8 OHV: 239, 292 & 312 C.I.D. Ford & Mercury V8: 221, 260 & 289 C.I.D.; 1962 Up Ford & Mercury V8: 302 & 351 C.I.D. Windsor 2 Barrel Carburetor Ford & Mercury V8 OHV: 332, 352, 390 and 427 C.I.D. ;1958-67 Oldsmobile V8 Diesel: 260 & 350 C.I.D.; 1978 Up Oldsmobile Rocket V8: 330, 350, 400, 425 & 455 C.I.D.

**CENTER RISER MANIFOLD #ALUMINUM MANIFOLD ##WILL NOT FIT CLEVELAND ENGINES



8-1/2'

MANIFOLD END PLATE & GASKET IDENTIFICATION LISTING

Water

Manifold	Front		Exhaust		Header
Part #	End Plate	Gasket	End Plate	Gasket	Adaptor
BV-1-57	1-0032	1-0019	1-0025	1-0019	1-0001
BV-1-67	1-0032	1-0019	1-0025	1-0019	1-0001
BV6-1-75	1-0092	1-0022	1-0024##	1-0022	1-0000
C-1-6364	1-0032	1-0019	1-0025	1-0019	1-0001
C6-1-M7M27	1-0056	1-0062	1-0067*	1-0068	1-0007
C6-1-M47	1-0057	1-0062	1-0067*	1-0068	1-0007
CAT-1-3208	DA-1-6371L2/R2	1-0019	1-0025	1-0019	1-0001
CHD-1-82	1-0036	1-0019	1-0025	1-0019	1-0001
CHV-1-5557	1-0042	1-0022	1-0024	1-0022	1-0000
CHV-1-63	1-0032	1-0019	1-0025	1-0019	1-0001
CHVA-1-58	1-0032	1-0019	1-0025	1-0019	1-0001
CHVA-1-65	1-0032	1-0019	1-0025	1-0019	1-0001
CM-1-5665	1-0092	1-0022	1-0024##	1-0022	1-0000
D-1-M6M26	1-0056	1-0062	1-0067*	1-0068	1-0007
D-1-M46SP	1-0057	1-0062	1-0067*	1-0068	1-0007
D1-M46ST	1-0057	1-0062	1-0067*	1-0068	1-0007
DD-1-501	1-0036	1-0019`	1-0025	1-0019	1-0001
FC-1-60	1-0042	1-0022	1-0024	1-0022	1-0000
FE-1-58	1-0032	1-0019	1-0025	1-0019	1-0001
FM-1-5457	1-0031	1-0022	1-0024	1-0022	1-0000
FM-1-6970	1-0032	1-0019	1-0025	1-0019	1-0001
FM-1-7275	1-0032	1-0019	1-0025	1-0019	1-0001
GR-1-162**	1-0059	1-0060	GR-1-0001**	N/A	N/A
GR-1-175**	1-0059	1-0060	GR-1-0001**	N/A	N/A
GR-1-226	1-0009	1-0011	GR-1-0001**	N/A	N/A
GR-1-3273L	GR-1-0005L	GR-1-0006	GR-1-0003L	GR-1-0006	1-0069
GR-1-3273R	GR-1-0005R	GR-1-0006	GR-1-0003R	GR-1-0006	1-0069
GR-1-3274L	GR-1-0005L	GR-1-0006	GR-1-0002L	GR-1-0006	1-0002
GR-1-3274R	GR-1-0005R	GR-1-0002R	GR-1-0002R	GR-1-0006	1-0002
GR-1-6470	GR-1-6470A	1-0019	1-0036##	1-0019	1-0001
INT-1-5457L	1-0072	1-0022	1-0024##	1-0022	1-0000
INT-1-5457R	1-0074	1-0022	1-0024##	1-0022	1-0000
INT-1-58L	1-0077	1-0019	1-0025##	1-0019	1-0001
INT-1-58R	1-0076	1-0019	1-0025##	1-0019	1-0001
INT-1-6268L	1-0072	1-0022	1-0024##	1-0022	1-0000
INT-1-6268R	1-0074	1-0022	1-0024##	1-0022	1-0000
MC-1-0120	1-0075	1-0022	1-0092	1-0022	NOT REQ'D
MC-1-6364	C-1-6365B	1-0019	1-0036	1-0019	NOT REQ'D
OF-1-60	1-0036	1-0019	1-0025	1-0019	1-0001
OR-1-73	NOT REQ'D	NOT REQ'D	1-0080	1-0082	1-0081
V6D-1-478	V8D-1-0002	V8D-1-0003	V8D-1-0001##	V8D-1-0003	V8D-1-0004
V8D-1-637	V8D-1-0002	V8D-1-0003	V8D-1-0001##	V8D-1-0003	V8D-1-0004

*NOTE: MANIFOLDS WITH FOUR BOLT STYLE AND FLANGES REQUIRE ADAPTOR # 1-0061 AND GASKET 1-0062 BETWEEN MANI-FOLD AND END PLATE.

NOTE: PART # GR-1-0001 IS A REPLACEMENT FOR THE ORIGINAL GRAY THREADED FLANGE AND IS NOT SUPPLIED WITH THE MANIFOLD. MANIFOLDS MARKED () THUS CAN BE USED WITH THE ORIGINAL GRAY EXHAUST FITTING.

HEADER ADAPTOR FURNISHED INSTEAD OF EXHAUST END PLATE.

8-1/2"

20-0000



Part Numbe

.5/8

.9-1/2"-

"A"

2-9/16

-6-1/8"

/8"

6-

Barr Marine Diesel Engine Riser

"C'

Part Number



20-0094	Versatile 1 1/2" N.P.T. exhaust riser. Approx. 10 lbs in weight; Gray Iron.
20-0101	Versatile 1 1/2" N.P.T. exhaust riser. Approx. 2 1/2 lbs. in weight; Aluminum.
50-090-150	1 1/2" N.P.T. Pipe Plug

-6-1/8"

6-1/8"

20 0094



20 0101



9-1/2"

"(

Part Number

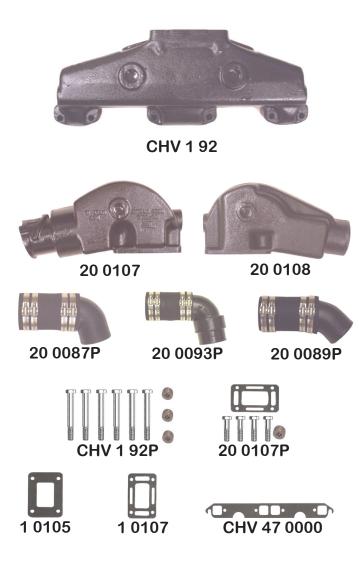
2-9/16"

5

8-1/2"



Aluminum



CHV-1-92	Water cooled center discharge mani- fold to fit the small block GM engine (3/4" N.P.T. cooling hose con- nections). All years.
20-0108	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.
20-0107	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0107P	Riser mounting package for both 20-0107 and 20-0108.
20-0087P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0093P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.
CHV-1-92P	Manifold mounting package (in- cludes bolts and pipe plugs).
CHV-47-0000	Manifold to cylinder head gasket.

Note:

Manifold includes CHV 1 92P (mounting package to head) and risers include 20 0107P (mounting package to manifold).

6-1/8"

/8"

6-

The center riser is a two-piece aluminum manifold/riser ideally suited for replacement use where riser protection is required. The Barr Center Riser aluminum manifold/riser uses flexible exhaust hose which facilitates connection to existing exhaust lines. All elbows (cast iron) can swivel inboard or outboard for perfect fit. The Barr Center Riser aluminum manifold/riser is designed to limit back presure on the engine, resulting in more efficient engine performance. The manifold and riser can be reversed and will fit either side of the engine.

The Barr Center Riser aluminum manifold/riser is cast of 356 T6 aluminum, well suited for fresh water marine applications. Barr Marine's Center Riser aluminum manifold/riser come wih a one year warranty. However, Barr Marine By EDM does not recommend use of this product in salt water applications and does not warrant this product in salt water due to extreme corrosion.



6

Part NUIT

5/8

11 0

2-9/

16

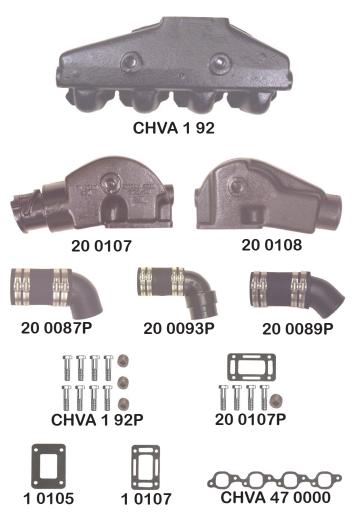
.9-1/2"-

8-1/2"

ALL MODELS CENTER RISER GENERIC

Chevrolet Big Block 427 and 454 C.I.D.

Aluminum



CHVA-1-92 20-0108	Water cooled center discharge mani- fold to fit the big block GM engine (3/4" N.P.T. cooling hose con- nections). All years. Water cooled center discharge riser
20-0108	(3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.
20-0107	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0107P	Riser mounting package for both 20-0107 and 20-0108.
20-0087P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0093P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.
CHVA-1-92P	Manifold mounting package (in- cludes bolts and pipe plugs).
CHVA-47-0000	Manifold to cylinder head gasket.

-6-1/8

18

6-

Note:

Manifold includes CHV 1 92P (mounting package to head) and risers include 20 0107P (mounting package to manifold).

The center riser is a two-piece aluminum manifold/riser ideally suited for replacement use where riser protection is required. The Barr Center Riser aluminum manifold/riser uses flexible exhaust hose which facilitates connection to existing exhaust lines. All elbows (cast iron) can swivel inboard or outboard for perfect fit. The Barr Center Riser aluminum manifold/riser is designed to limit back presure on the engine, resulting in more efficient engine performance. The manifold and riser can be reversed and will fit either side of the engine.

The Barr Center Riser aluminum manifold/riser is cast of 356 T6 aluminum, well suited for fresh water marine applications. Barr Marine's Center Riser aluminum manifold/riser come wih a one year warranty. However, Barr Marine By EDM does not recommend use of this product in salt water applications and does not warrant this product in salt water due to extreme corrosion.







The CC-1-07686 must not be used in 3 pass plumbing systems!



CC 1 07686



CC 20 08288

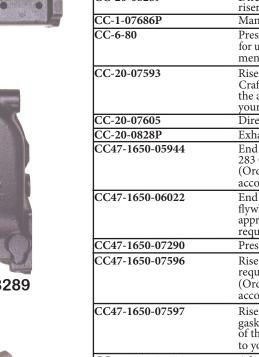
CC 20 07605



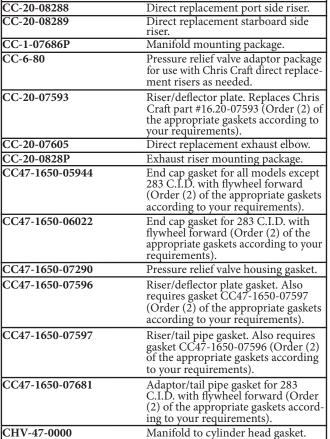
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CC-1-07686



Direct replacement water cooled manifold. Replaces Chris Craft part #

16.20-07686

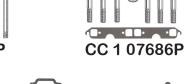
Note:

Manifold includes all mounting hardware to head, gaskets and plugs. Risers include mounting gaskets and plugs only. Order CC 20 0828P to mount riser to manifold ((2) required per engine).



CC47 1650

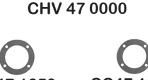
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ALL MODELS GENERIC

Chris Craft V8-283, 302, 305, 307, 327 and 350 C.I.D.¹⁸





8-1/2"

20 0000



20 0055

20 0034

1 0012L

1 0283L



20 0039



1 0283R



1 0012R



Q 20 0002P



CC47 1650 06022

1-0012L	Adaptor for Chris Craft V8 283 C.I.D. Manifolds prior to Models F, G, K and Q (three pass manifold system) left side. Requires Chris Craft adaptor part #16.20-07602 (port side).
1-0012R	Adaptor for Chris Craft V8 283 C.I.D. Manifolds prior to Models F, G, K and Q (three pass manifold system) right side. Requires Chris Craft adaptor part #16.20-07064 (starboard side).
1-0283A	Adaptor for Chris Craft V8 283, 302, 305, 307, 327 and 350 C.I.D. Mani- folds, Models F, G, and K (two pass manifold system). Not pictured.
1-0283L	Adaptor for Chris Craft V8 283, 302, 305, 307, 327 and 350 C.I.D. Mani- folds, Model Q (single pass manifold system) left side.
1-0283L	Adaptor for Chris Craft V8 283, 302, 305, 307, 327 and 350 C.I.D. Mani- folds, Model Q (single pass manifold system) right side.
20-0000	Swivel-type high discharge exhaust riser; 8 1/2" riser protection. Re- quires (1) mounting hardware kit #20-0002P per riser. Use only with 2 7/8" to 3" I.D. exhaust hose.
20-0002P	Mounting hardware kit.
20-0031	Swivel-type 90 degree exhaust elbow connector with internal water dis- charge. Accepts 2 1/2" to 3" I.D. ex- haust hose. Requires (1) mounting hardware kit #20-0002P per elbow.
20-0034 or 20-0035	Exhaust connector #20-0035 (for 2 1/2" I.D. exhaust hose) or exhaust connector #20-0034 (for 3" I.D. ex- haust hose). Connects to #20-0039 using (1) #20-0002P per connector.
20-0039	Fully jacketed swivel-type exhaust riser; 7" riser protection. Requires (2) mounting hardware kits #20-0002P ((1) kit to mount riser to manifold and (1) kit to mount elbows #20-0034 or #20-0035 to riser). Use for Models F, G, K, and Q; requires (1) CC-6-80 package.
20-0055	Swivel-type 30 degree exhaust elbow connector; fully jacketed. Accepts 2 1/2" or 3" I.D. exhaust hose. Re- quires (1) mounting hardware kit #20-0002P per elbow.
CC-6-80	Pressure relief valve adaptor package for Chris Craft V8 Models F, G, K, and Q. Use with #20-0039 riser.
CC47-1650-05944	End cap gasket for all models except 283 C.I.D. with flywheel forward (Order (2) of the appropriate gaskets according to your requirements).
CC47-1650-06022	End gasket for 283 C.I.D. with fly- wheel forward (Order (2) of the appropriate gaskets according to your requirements).

2-9/16"

2-9/16"

6-1/8"



9

8-1/2"

9-1/2"

Part Number

Chris Craft V8-283, 302, 305, 307, 327 and 350 C.I.D. ALL MODELS CENTER RISER GENERIC



CHV 1 83



20-0000





20 0085P

CHV 1 83P



20 0089P

20 0082P



CC 27 79

20 0086P

20 0082



1 0106P 10104P





8-1/2"



.9-1/2"-

CHV-1-83	Water cooled center discharge mani- fold to fit the small block GM engine (3/4" N.P.T. cooling hose con- nections). All years.
20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.
20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off plate with vent hole).
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0082P	Riser mounting package for both 20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.
20-0085P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0097	3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
CC-27-79	Alternator bracket. Use where engine water pump is mounted on the star- board side of the engine.
CHV-1-83P	Manifold mounting package (in- cludes bolts and pipe plugs).
CHV-1-83SS-P	Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.
CHV-27-0083	Alternator bracket. Use where engine water pump is mounted on port side of engine below alternator.
CHV-47-0000	Manifold to cylinder head gasket.

Water

charge

Note:

.5/8

"A'

2-9/16

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

6-1/8"

/8"

6-1



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Part Nun

8-1/2" -9/16 ALL MODELS CENTER RISER GENERIC

Chris Craft V8-454 C.I.D.



CHVA 1 84

20 0084P



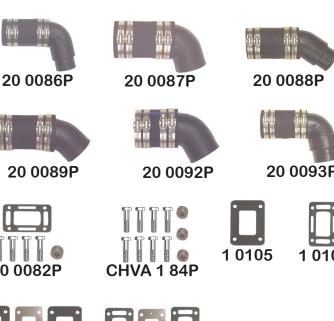


20 0097

na



20 0082P



1 0104P	





8-1/2"

20 0082

20 0085P

		with 2 1/2 I.D. exhaust hose.
	20-0086P	90 degree exhaust elbow adapto (includes adaptor, hose and clar For use with 2 1/2" I.D. exhaust
P	20-0087P	90 degree exhaust elbow adapto (includes adaptor, hose and clar For use with 3" I.D. exhaust ho
0	20-0088P	30 degree exhaust elbow adapto (includes adaptor, hose and clar For use with 2 1/2" I.D. exhaust
	20-0089P	30 degree exhaust elbow adapto (includes adaptor, hose and clau For use with 3" I.D. exhaust ho
07	20-0092P	45 degree exhaust elbow adapto (includes adaptor, hose and clau For use with 3" I.D. exhaust ho
	20-0093P	90 degree exhaust elbow adapto (includes adaptor, hose and clau For use with 3 1/2" or 4" I.D. ex hose.
	20-0097	3" spacer block (complete with mounting hardware, gasket and pipe plug). Capable of stacking
	CHVA-1-84P	Manifold mounting package (in cludes bolts and pipe plugs).
	CHVA-1-84SS-P	Stainless steel manifold mounti package (includes stainless bolt brass plugs). Not pictured.

2-9/16



Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



6-1/8	"
6-110	
	6-1/8"

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For use with 2 1/2" I.D. exhaust hose.20-0089P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.20-0092P45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.20-00973" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.CHVA-1-84PManifold mounting package (in- cludes bolts and pipe plugs).CHVA-1-84SS-PStainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		
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(includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 20-0092P 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 20-0093P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (in- cludes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.	20-0089P	
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20-0092P 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 20-0093P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (in- cludes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		For use with 3" I.D. exhaust hose.
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(includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (includes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.	20-0093P	
hose. 20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (includes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		(includes adaptor, hose and clamps).
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mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (in- cludes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		
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pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (in-cludes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		mounting hardware, gasket and 3/4"
CHVA-1-84PManifold mounting package (in- cludes bolts and pipe plugs).CHVA-1-84SS-PStainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		pipe plug). Capable of stacking.
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CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.	UII VA-1-04P	cludes bolts and pipe pluge)
package (includes stainless bolts and brass plugs). Not pictured.	CHVA-1-8455 D	
brass plugs). Not pictured.	UII VA-1-0433-P	
		brass plugs) Not pictured
Trainiola to cynnaet neau gasket.	CHV4-47-0000	
	011177-1/-0000	mannolu to cynnuci neau gaskel.

9-1/2"

Part Number

Chrysler V8-273, 318, 340, and 360 C.I.D.



CM 1 4417063



P

CM-1-4417063	Water cooled center discharge exhaust manifold to fit the small block Chrysler (1/2" N.P.T. cooling hose connections). Used during years 1986 and later.
534005	Generic riser designed to be mounted to the original Chrysler center riser exhaust manifold (for use with 3" I.D. exhaust hose/3/4" N.P.T. cooling hose connection).
534002	Adaptor kit (sold as shown) to fit the original Chrysler center riser exhaust manifold to the Barr style riser (part #534005). Adaptor must be used for Barr style riser.
534004	Riser gasket for raw water cooled manifolds (installed between manifold and adaptor plate).
50-512-018	1/2" N.P.T. X 3/4" hose (straight barb) brass fitting.
50-512-019	3/4" N.P.T. X 3/4" hose (straight barb) brass fitting.
50-525-018	1/2" N.P.T. X 3/4" hose (90 degree) brass fitting
50-525-019	3/4" N.P.T. X 3/4" hose (90 degree) brass fitting.
CM47-4417127	Riser gasket for raw water cooled manifolds (installed between adaptor plate and riser).
CM47-4417232	Riser gasket for fresh water cooled manifolds (installed between manifold and adaptor plate).

Note: Manifold includes all mounting hardware, gaskets and plugs.







534002









CM47 4417232



ALL MODELS. 1966 AND UP LOG STYLE DIRECT REPLACEMENT

Chrysler V8-273, 318, 340, and 360 C.I.D.

CM 1 6677A		CM 1 6672A
CM 20 6672	CM 20 6674	CM 20 2847405
CM 20 4142411	CM 20 9232	2 CM 20 2600402
CM 1 6672C	CM 1 6672B	CM 1 6672H
© © © © CM 20 6672P		● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●
	CM 1 6672E	
Note: CM-1-6672A_CM-1-6	6774 CM-20-6	672

CM-1-6672A, CM-1-6677A, CM-20-6672, CM-20-6674 and CM-20-2847405 include all mounting hardware, gaskets and plugs. Swivel-style connector packages must be purchased seperate for the corresponding riser/elbows. See next page for part

part numbers.

CM-1-6672A	Direct replacement water cooled manifold for model years 1966 to 1972.
CM-1-6677A	Direct replacement water cooled manifold for model years 1973 to 1986.
CM-20-2600402	Exhaust riser lower elbow. Direct replacement for Chrysler part # 2600402.
CM-20-2847405	90 degree exhaust elbow. Direct re- placement for Chrysler part #'s 2847405 and 2469639.
CM-20-4142411	Exhaust riser/upper elbow. Direct replacement for Chrysler part #'s 3745639, 2847623, 2487404 and E9233M.
CM-20-6672	Fully jacketed 20 degree exhaust elbow. Accepts 3" I.D. exhaust hose. Direct replacement for Chrysler part # 3527794. Will mount directly to manifold or can be used with riser # CM-20-6674.
CM-20-6674	Fully jacketed exhaust riser. 6" riser protection. Direct replacement for Chrysler part # 2846689.
CM-20-9232	6" exhaust elbow high riser exten- sion. Direct replacement for Chrysler part # E9232M.
CM-1-6672B	Front end plate without the water connector, (1) required per manifold (Chrysler part # 2846106). May re- quire mounting kit # CM-1-6672B-P (shown on next page). Order the appropriate end flanges and fittings according to your requirements.
CM-1-6672C	Adaptor for rear end of manifold. Use with Barr style exhaust risers or elbows, (1) required per manifold.
CM-1-6672E	Copper water distribution tube, (1) required per manifold. Replaces original tube (Chrysler part # 3527781) where used. Will fit both manifold styles.
СМ-1-6672Н	Front end plate with 1/2" N.P.T. water connection. For use where water con- nection is made from the front of the manifold. Will replace Chrysler part # 3527869, (1) required per manifold. May require mounting kit # CM-1-6672B-P (show on next page). Will fit both manifold styles.
СМ-1-6677Р	Manifold to cylinder head mounting kit (Order (1) of the appropriate mounting kits according to your requirements).
СМ-1-6677\$\$-Р	Stainless steel manifold to cylinder head mounting kit (includes stainless studs, nuts, manifold to head gaskets and brass drain plugs). Not pictured.
CM-20-6672P	Mounting kit for exhaust elbow con- nector for raw water cooled manifold (includes bolts, gasket and pipe plug).

2-9/16"

6-1/8

6-1/8"



8-1/2"

9-1/2"

Part Number

Chrysler V8-273, 318, 340, and 360 C.I.D. Part Num

CM 20 6674J P

CM 20 6672J P

CM 20 6674B P

CM 1 6672D

20-00 ALL MODELS. 1966 AND UP LOG STYLE DIRECT REPLACEMENT

CM-1-6672D



Discharge







CM 1 6672J



CM 20 9224

CM 50 115729

CM 50 6025923

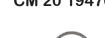
CM 20 9226

8-1/2"

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No. of Concession, Name







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.9-1/2"-

cooled manifolds, (2) required per manifold. Replaces Chrysler part # 2847480. Will fit both manifold styles. End flange gasket for fresh water cooled manifolds, (1) required per exhaust end. Will fit both manifold CM-1-6672J styles CM-1-6672P Manifold to cylinder head gasket set, (1) required per engine. Replaces Chrysler part # 3745220. Will fit both manifold styles. CM-20-1947617 Exhaust elbow extension retainer. CM-20-2600402P Mounting kit for lower elbow riser (includes bolts, gasket and pipe plugs). Mounting kit for exhaust elbow (in-cludes bolts, gasket and pipe plugs). CM-20-2847405P Mounting kit for upper riser/elbow (includes sleeve, O-rings, retainers, CM-20-4142411P bolts and pipe plugs). Mounting kit for exhaust elbow connector for fresh water cooled CM-20-6672J-P manifold (includes bolts, gasket, and pipe plugs). Mounting kit for exhaust riser for fresh water cooled manifold (includes CM-20-6674J-P bolts, gasket and pipe plug). Mounting kit for raw water cooled manifold (includes bolts, gasket and CM-20-6674P pipe plugs). Mounting kit for 6" extension (includes sleeve, O-rings, retainers CM-20-9232P and bolts). CM-20-9224 Exhaust to elbow extension retainer sleeve. CM-20-9225 Exhaust to elbow extension inner seal. CM-20-9226 Exhaust to elbow extension outer seal. CM-50-115729 Stainless steel exhaust manifold stud nut CM-50-602593 Stainless steel exhaust manifold stud. 2

Internal

Water charge

End flange gasket for raw water



6-1/8"

/8"

6-



Part NUT

5/8

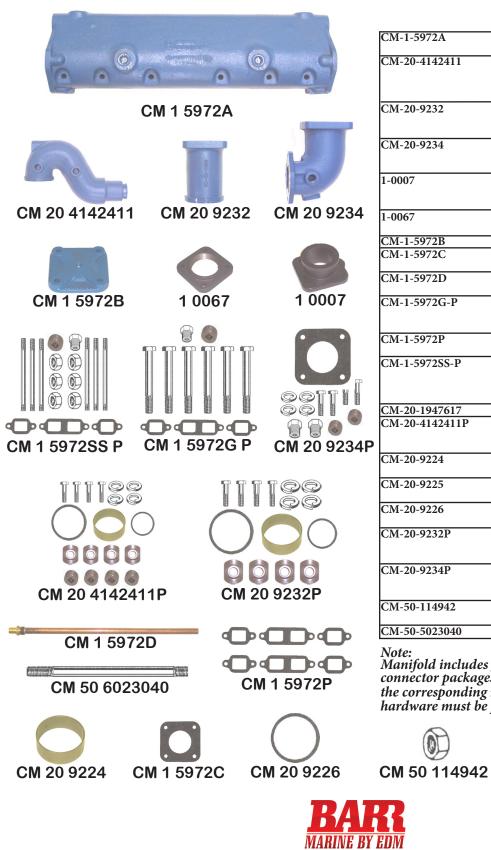
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2-9/

16

ALL MODELS. 1959 AND UP LOG STYLE DIRECT REPLACEMENT

Chrysler V8-361, 383, 400, 413, 426 and 440 C.I.D. 1/8



CM-1-5972A	Direct replacement water cooled
	manifold for big block Chrysler.
CM-20-4142411	Exhaust riser/upper elbow. Direct
	replacement for Chrysler part #'s
	3745639, 2847623, 2847404 and
	E9233M.
CM-20-9232	6" exhaust elbow high riser exten-
	tion. Direct replacement for Chrysler part # E9232M.
	1
CM-20-9234	Exhaust riser lower elbow. Direct
	replacement for Chrysler part # E9234M.
1-0007	
1-0007	Adaptor for rear end of manifold. Use with Barr style exhaust risers or
	elbow connectors.
1 00/7	2 1/2" N.P.T. threaded exhaust end
1-0067	plate.
CM-1-5972B	Direct replacement front end plate.
CM-1-5972C	End plate gasket, (2) required per
0.111-1-37/20	manifold.
CM-1-5972D	Copper water distribution tube. Re-
	places original tube where used.
CM-1-5972G-P	Manifold to cylinder head mounitng
	kit (includes bolts, manifold to head
	gaskets and brass drain plug).
CM-1-5972P	Manifold to cylinder head mounting
	gasket set.
CM-1-5972SS-P	Manifold to cylinder head mounting
	kit (includes stainless steel studs and
	nuts, manifold to head gaskets and
	brass drain plugs).
CM-20-1947617	Exhaust elbow extension retainer.
CM-20-4142411P	Mounting kit for upper riser/elbow
	(includes sleeve, O-rings, retainers,
	bolts and pipe plugs).
CM-20-9224	Exhaust elbow to extension seal re-
	Exhaust elbow to extension seal re- tainer sleeve.
CM-20-9224 CM-20-9225	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner
СМ-20-9225	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal.
	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner
СМ-20-9225	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal.
СМ-20-9225	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal. Mounting kit for 6" extension (in-
CM-20-9225 CM-20-9226	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal. Mounting kit for 6" extension (in- cludes sleeve, O-rings, clamps and
CM-20-9225 CM-20-9226	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal. Mounting kit for 6° extension (in- cludes sleeve, O-rings, clamps and bolts).
CM-20-9225 CM-20-9226	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal. Mounting kit for 6" extension (in- cludes sleeve, O-rings, clamps and bolts). Mounitng kit for lower elbow riser
CM-20-9225 CM-20-9226 CM-20-9232P	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal. Mounting kit for 6" extension (in- cludes sleeve, O-rings, clamps and bolts). Mounitng kit for lower elbow riser (includes bolts, gasket and pipe
CM-20-9225 CM-20-9226 CM-20-9232P	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal. Mounting kit for 6" extension (in- cludes sleeve, O-rings, clamps and bolts). Mounitng kit for lower elbow riser (includes bolts, gasket and pipe plugs).
CM-20-9225 CM-20-9226 CM-20-9232P	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal. Mounting kit for 6" extension (in- cludes sleeve, O-rings, clamps and bolts). Mounitng kit for lower elbow riser (includes bolts, gasket and pipe plugs). Stainless steel exhaust manifold
CM-20-9225 CM-20-9226 CM-20-9232P CM-20-9234P	Exhaust elbow to extension seal re- tainer sleeve. Exhaust elbow to extension inner seal. Exhaust elbow to extension outer seal. Mounting kit for 6" extension (in- cludes sleeve, O-rings, clamps and bolts). Mounitng kit for lower elbow riser (includes bolts, gasket and pipe plugs).

6-1/8"

Manifold includes gaskets and plugs. Swivel-style connector packages must be purchased seperate for the corresponding riser/elbows. Manifold mounting hardware must be purchased separately.

9-1/2"

Part Number

5

8-1/2"

CM 20 9225

CM 20 1947617

2-9/16

Crusader V8-283, 302, 305, 307, 327 and 350 C.I.D. ALL MODELS CENTER RISER GENERIC



CHV 1 83



20 0100



20 0082

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pa

20 0086P

QQ

CHV 27 0083





20 0085P













1 0106P

CHV-1-83	Water cooled center discharge mani- fold to fit the small block GM engine (3/4" N.P.T. cooling hose con- nections). All years.
20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.
20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off plate with vent hole).
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0082P	Riser mounting package for both 20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.
20-0085P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0097	3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
CHV-1-83P	Manifold mounting package (in- cludes bolts and pipe plugs).
CHV-1-83SS-P	Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.
CHV-27-0083	Alternator bracket. Use where engine water pump is mounted on port side of engine below alternator.
CHV-47-0000	Manifold to cylinder head gasket.

Internal Water

incharge

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.





ALL MODELS DIRECT REPLACEMENT

Crusader V8-283, 302, 305, 307, 327 and 350 C.I.D. 18



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CR 50 22033	iteere e
CR 50 22033	leere e

CR 50 22032



Direct reals compared at the send of 1
Direct replacement starboard side manifold. Replaces Crusader part # 97752.
Direct replacement port side manifold. Replaces Crusader part # 97753.
Direct replacement exhaust elbow assembly, 3" I.D. exhaust hose. Re- places Crusader part # 96560.
6" riser extension. Replaces Crusader part # 97169.
90 degree swivel elbow. Replaces Crusader part # 97386.
Elbow, lower swivel with 3" outlet. Replaces Crusader part # 97387.
Elbow, lower swivel with 4" outlet. Replaces Crusader part # 97624.
4" riser extension. Replaces Crusader part # 97772.
Direct replacement exhaust elbow assembly, 4" I.D. exhaust hose. Re- places Crusader part # 97924.
Direct replacement exhaust elbow assembly, 3" I.D. exhaust hose. For use without Crusader spacer part # 97295. Replaces Crusader part # 98068.
Manifold to cylinder head gasket.
Manifold mounting package. Not pictured.
Manifold mounting package (alt- ernator side of engine). Not pictured.
Mounting package for CR-20-96560, CR-20-97386, CR-20-97924, and CR-20-98068.
Mounting package for CR-20-97169.
Stainless steel block off plate for fresh water applications.
Mounting package for CR-20-97772.
143 degree thermostat for Crusader. Not pictured.
Replacement exhaust elbow gasket (3 hole).
Replacement exhaust elbow gasket (1 hole).
Replaces Crusader part # 20471 (3/8" X 5 3/4" stainless steel stud).
Replaces Crusader part # 22032 (3/8" X 9 3/8" stainless steel stud). For use with OEM adaptor # 97295.
Replaces Crusader part # 22033 (3/8" X 7 3/4" stainless steel stud).

Note:

Manifolds and elbows include all mounting hardware, gaskets and plugs. CR-20-96169P and CR-20-97772P must be purchased seperate for the corresponding risers.





2-9/16

6-1/8

7

8-1/2"

C" Part Numbe

Crusader V8-283, 305, 307, 327 and 350 C.I.D. Internal CENTER RISER DIRECT REPLACEMENT Water incharge



CR 1 98243



CR 20 98126

CR-1-98243	Direct replacement water cooled exhaust manifold. Replaces Crusader part # 98243.
CR-20-98216	Direct replacement water cooled center discharge riser. Replaces Cru- sader part # 98126. Accepts 4" I.D. exhaust hose.
CR-20-98128	Manifold to riser 3" spacer block (single). Replaces Crusader part # 98128.
CHV-47-0000	Manifold to cylinder head gasket.
CR-1-98243P	Mounting package for CR-1-98243.
CR-20-98124	Stainless steel block off plate for closed cooling applications.
CR-20-98126P	Mounting package for CR-20-98126 riser.
CR-20-98128P	Mounting package for CR-20-98128 spacer.
CR47-C-98127	Direct replacement manifold to riser gasket.

Note: Manifold, riser and spacer block include all mounting hardware, gaskets and plugs.







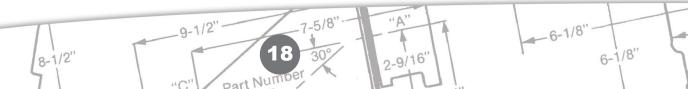












8-1/2" ALL MODELS CENTER RISER GENERIC

Crusader V8-427 and 454 C.I.D.



CHVA 1 84



20 0100



20 0097









20 0092P

CHVA 1 84P



20 0088P

20 0085P

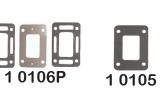
20 0093P

CHVA 47 0000

20 0082



1 0104P



d



8-1/2"

Note: Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

CHVA-1-84	Water cooled center discharge mani- fold to fit the big block GM engine (3/4" N.P.T. cooling hose con- nections). All years.
20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con-
	nection). Standard for use with 3" I.D. exhaust hose.
20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" L.D. exhaust hose.
1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off plate with vent hole).
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0082P	Riser mounting package for both 20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.
20-0084P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 3 1/2" I.D. exhaust hose.
20-0085P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0087P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0092P	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0093P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.
20-0097	3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
CHVA-1-84P	Manifold mounting package (in- cludes bolts and pipe plugs).
CHVA-1-84SS-P	Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.
CHVA-47-0000	Manifold to cylinder head gasket.

2-9/16

116"

-6-1/8"

6-1/8"



9

9-1/2"

Part Number

Crusader V8-454 and 502 C.I.D

ALL MODELS DIRECT REPLACEMENT

CR-1-97992



Discharge

Part Number

20-0000

"C" -



CR 20 96560



CR 20 97924

CR 20 97169

 \bigcirc

CR 50 96369

CR 50 20471

CR 50 22033

CR 50 22032

8-1/2

CR 20 97772P

CR 20 97772

CR 20 96560P

CR 20 97169P





15/16" Longer CR 20 98068



CR 20 97386



CR 20 97387



CR 20 97624 CR47 C 96108

CR 20 97296

.9-1/2"-

Direct replacement port side manifold. Replaces Crusader part # CR-1-97993 97993 Direct replacement exhaust elbow assembly, 3" I.D. exhaust hose. Re-places Crusader part # 96560. CR-20-96560 8" riser extension. Replaces Crusader part # 97169. CR-20-97169 90 degree swivel elbow. Replaces Crusader part # 97386. CR-20-97386 Elbow, lower swivel with 3" outlet. Replaces Crusader part # 97387. CR-20-97387 Elbow, lower swivel with 4" outlet. Replaces Crusader part # 97624. CR-20-97624 4" riser extension. Replaces Crusader part # 97772. CR-20-97772 Direct replacement exhaust elbow assembly, 4" I.D. exhaust hose. Re-places Crusader part # 97924. CR-20-97924 Direct replacement exhaust elbow assembly, 3" I.D. exhaust hose. For use without Crusader spacer part # CR-20-98068 97295. Replaces Crusader part # 98068 CHVA-47-0000 Manifold to cylinder head gasket. CR-1-9799P Manifold mounting package. Not pictured. Mounting package for CR-20-96560, CR-20-97386, CR-20-97924, and CR-20-96560P <u>CR-20-98068</u>. CR-20-97169P Mounting package for CR-20-97169. Stainless steel block off plate for fresh water applications. CR-20-97296 Mounting package for CR-20-97772. CR-20-97772P CR-20-96319 143 degree thermostat for Crusader (not pictured) CR47-C-96108 Replacement exhaust elbow gasket (3 hole) CR47-C-96562 Replacement exhaust elbow gasket (1 hole). CR-50-20471 Replaces Crusader part # 20471 3/8" X 5 3/4" stainless steel stud) Replaces Crusader part # 22032 CR-50-22032 (3/8" X 9 3/8" stainless steel stud). For use with OEM adaptor # 97295. Replaces Crusader part # 22033 (3/8" X 7 3/4" stainless steel stud). CR-50-22033 Replaces Crusader part # 96369 (3/8" X 4" stainless steel stud). For use with OEM adaptor # 97295. CR-50-96369

97992

Note: Manifolds and elbows include all mounting hardware, gaskets and plugs. CR-20-96169P and CR-20-97772P must be purchased seperate for the corresponding risers.









Internal Water

Direct replacement starboard side manifold. Replaces Crusader part # ALL MODELS CENTER RISER GENERIC

Crusader V8-302 and 351 C.I.D.



FM-1-83	Water cooled center discharge mani-
110-1-05	fold to fit the small block Ford engine
	(3/4" N.P.T. cooling hose con-
	nections). All years.
20-0082	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 3"
	I.D. exhaust hose.
20-0100	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 4"
	I.D. exhaust hose.
1-0104P	Adaptor package for fresh water
	cooled manifold (includes gaskets
	and block off plate).
1-0105	Center riser manifold-to-riser gasket
	for fresh water cooling.
1-0106P	Adaptor package for raw water
	cooling. Used in pre-heating applica-
	tions (includes gaskets and block off
	plate with vent hole).
1-0107	Center riser manifold-to-riser gasket
	(raw water cooling).
20-0082P	Riser mounting package for both
	20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package
	(with brass plugs) for both 20-0082
	and 20-0100. Not pictured.
20-0084P	Straight exhaust adaptor (includes
	adaptor, hose and clamps). For use
	with 3 1/2" I.D. exhaust hose.
20-0085P	Straight exhaust adaptor (includes
	adaptor, hose and clamps). For use
	with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 2 1/2" I.D. exhaust hose.
20-0087P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3 " I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0092P	45 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0093P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3 1/2" or 4" I.D. exhaust
	hose.
20-0097	3" spacer block (complete with
	mounting hardware, gasket and 3/4"
	pipe plug). Capable of stacking.
FM-1-83P	Manifold mounting package (in-
	cludes bolts and pipe plugs).
FM-1-83SS-P	cludes bolts and pipe plugs). Stainless steel manifold mounting
FM-1-83SS-P	Stainless steel manifold mounting
FM-1-83SS-P	Stainless steel manifold mounting package (includes stainless bolts and
FM-1-83SS-P FM-47-0000	Stainless steel manifold mounting

2-9/16

116"

-6-1/8"

/8"

6-1

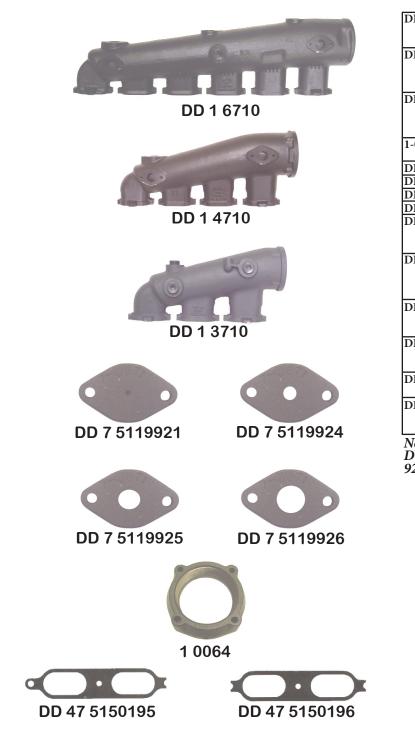


8-1/2"

9-1/2"

Part Number

Detriot Diesel 3-71, 6V-71, 4-71, 8V-71, 6-71 and 12V-71 ALL MODELS DIRECT REPLACEMENT



20-0000

DD-1-3710	Direct replacement water cooled
DD-1-3/10	exhaust manifold to fit the 3 and 6V
	cylinder 71 Series Detroit Diesel.
DD-1-4710	1
	Direct replacement water cooled exhaust manifold to fit the 4 and 8V
	cylinder 71 and early style 92 Series
	Detroit Diesel.
DD-1-6710	Direct replacement water cooled exhaust manifold to fit the 6 and 12V
	cylinder 71 and early style 92 Series
	Detroit Diesel.
1-0064	4" N.P.T. exhaust end plate. Replaces Detroit Diesel part # 5164146.
	Detroit Diesel part # 5164146.
DD-7-5119921	Blank water cover plate and gasket.
DD-7-5119924	3/8" water cover plate and gasket.
DD-7-5119925	1/2" water cover plate and gasket.
DD-7-5119926	3/4" water cover plate and gasket.
DD47-4710	Exhaust manifold gasket set for 4
	cylinder manifold (order (1) of the
	appropriate gasket set per manifold).
DD47-5150195	Exhaust manifold to head gasket for
	4 and 6 cylinder manifolds (order (2)
	of the appropriate gaskets per manifold).
DD47-5150196	
DD4/-5150190	Exhaust manifold to head gasket for 6 cylinder manifold (order (1) of the
	appropriate gasket per manifold).
DD47-5156319	Exhaust manifold cover plate gasket
	for 4 and 6 cylinder manifolds (order
	(5) gaskets per manifold).
DD47-5163811	4" exhaust outlet gasket (order (1)
	gasket per manifold).
DD47-6710	Exhaust manifold gasket set for 6
	cylinder manifold (order (1) gasket
	set per manifold).

Note:

Detroit 71 series exhaust will fit some of the earlier 92 series engines. Please call for assistance.





Internal

Water charge



"A

2-9/

16



-6-1/8"

/8"

6-

Barr Marine extends a 1 year warranty on these exhaust manifolds.



Part NUT

5/8

.9-1/2"-

8-1/2"

ALL MODELS CENTER RISER GENERIC

Flagship V8-283, 327 and 350 C.I.D.



CHV 1 83



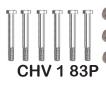
20 0100





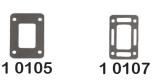
20 0089P







1 0104P





8-1/2"

20 0082P

1 0106P

20 0082

20 0086P

CHV 27 0083

QQ

r	
CHV-1-83	Water cooled center discharge mani- fold to fit the small block GM engine (3/4" N.P.T. cooling hose con- nections). All years.
20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.
20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off plate with vent hole).
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0082P	Riser mounting package for both 20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.
20-0085P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0097	3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
CHV-1-83P	Manifold mounting package (in- cludes bolts and pipe plugs).
CHV-1-83SS-P	Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.
CHV-27-0083	Alternator bracket. Use where engine water pump is mounted on port side of engine below alternator.
CHV-47-0000	Manifold to cylinder head gasket.

- 6-1/8'

18'

6-1

Note:

9-1/2"

Part Number

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

2-9/16





Starboard side part # OF 1 60R



OF-1-60L	Water cooled end discharge port manifold to fit the small block Chev- rolet (1/2" N.P.T. cooling hose con- nections). All years
OF-1-60R	Water cooled end discharge starboard manifold to fit the small block Chev- rolet (1/2" N.P.T. cooling hose con- nections). All years
1-0019	End plate gasket (will fit both ends).
20-0000	Swivel-type high discharge exhaust riser; 8 1/2" riser protection. Requires (1) mounting hardware kit #20-0002P per riser. Use only with 2 7/8" to 3" I.D. exhaust hose.
20-0002P	Mounting hardware kit.
20-0031	Swivel-type 90 degree exhaust elbow connector with internal water dis- charge. Accepts 2 1/2" to 3" I.D. ex- haust hose. Requires (1) mounting hardware kit #20-0002P per elbow.
20-0034 or 20-0035	Exhaust connector #20-0035 (for 2 1/2" I.D. exhaust hose) or exhaust connector #20-0034 (for 3" I.D. ex- haust hose). Connects to #20-0039 using (1) #20-0002P per connector.
20-0039	Fully jacketed swivel-type exhaust riser; 7" riser protection. Requires (2) mounting hardware kits #20-0002P ((1) kit to mount riser to manifold and (1) kit to mount elbows 20-0034 or 20-0035 to riser).
20-0055	Swivel-type 30 degree exhaust elbow connector; fully jacketed. Accepts 2 1/2" or 3" I.D. exhaust hose. Re- quires (1) mounting hardware kit #20-0002P per elbow.
CHV-47-0000	Manifold to cylinder head gasket.
OF-1-60F-P	Manifold to cylinder head mounting package.



8-1/2"



"A'

2-9/16"



6-1/8"

/8"

6-



24

Dart NL

.5/8

.9-1/2"-

Gray Marine 4 and 6 Cylinder In-Line Models_6-1/8" 2-9/16" 8-1/2" GENERIC ber

"C"



GR 1 162

GR 1 175

GR-1-162	Water cooled exhaust manifold to fit the 4-cylinder models 620, 4-60 and 70. Use with OEM risers, elbow connectors or replace with Barr products.
GR-1-175	Water cooled exhaust manifold to fit the 4-cylinder models 4-75, 4-85 and 80. Use with OEM risers, elbow connectors or replace with Barr products.
GR-1-226	Water cooled exhaust manifold to fit the 6-cylinder 226 C.I.D. models. Use with OEM riser, elbow connectors or replace with Barr products.
GR-1-0001	Exhaust end plate flange (threaded for 2" female N.P.T.).

6-1/8"



GR 1 226





25

8-1/2"

9-1/2"

"(

Part Number

2-9/16"

Discriar 92 "C" Gray Marine V8-401 C.I.D. 280 H.P. Part Number 20-0000 ALL MODELS DIRECT REPLACEMENT Unternal Water Discriterion

 Port side part # GR-1-6470L

 Image: Construction of the second s

GR-1-6470L	Water cooled exhaust manifold (port side) to fit the 401 Buick. Includes all fittings, hose adaptors and primary water pump mounting pro- vision. Accepts Barr replacement risers and connectors only.
GR-1-6470R	Water cooled exhaust manifold (star- board side) to fit the 401 Buick. In- cludes all fittings, hose adaptors and primary water pump mounting pro- vision. Accepts Barr replacement risers and connectors only.
1-0019	End plate gasket (will fit both ends).
GR-1-6470P	Manifold to cylinder head mounting kit.
20-0000	Swivel-type high discharge exhaust riser; 8 1/2" riser protection. Requires (1) mounting hardware kit #20-0002P per riser. Use only with 2 7/8" to 3" I.D. exhaust hose.
20-0002P	Mounting hardware kit (Barr style riser/elbows only).
20-0031	Swivel-type 90 degree exhaust elbow connector with internal water dis- charge. Accepts 2 1/2" to 3" I.D. ex- haust hose. Requires (1) mounting hardware kit #20-0002P per elbow.
20-0034 or 20-0035	Exhaust connector #20-0035 (for 2 1/2" I.D. exhaust hose) or exhaust connector #20-0034 (for 3" I.D. ex- haust hose). Connects to #20-0039 using (1) #20-0002P per connector.
20-0039	Fully jacketed swivel-type exhaust riser; 7" riser protection. Requires (2) mounting hardware kits #20-0002P ((1) kit to mount riser to manifold and (1) kit to mount elbows 20-0034 or 20-0035 to riser).
20-0055	Swivel-type 30 degree exhaust elbow connector; fully jacketed. Accepts 2 1/2" or 3" I.D. exhaust hose. Re- quires (1) mounting hardware kit #20-0002P per elbow.

8-1/2"





"A'

2-9/16"

-6-1/8"

/8"

6-



26

Dart NU

.5/8

.9-1/2"-

ALL MODELS INBOARD. CENTER RISER GENERIC

Indmar V8-283, 305, 307, 327 and 350 C.I.D.



CHV 1 83



20 0100



20 0102



20 0097





20 0089P









8-1/2

20 0082

20 0086P

CHV 27 0083

10106P

QQ

CHV-1-83	Water cooled center discharge mani- fold to fit the small block GM engine (3/4" N.P.T. cooling hose con- nections). All years.
20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.
20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
20-0102	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Replaces Indmar # 532009.
1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off plate with vent hole).
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0082P	Riser mounting package for both 20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.
20-0085P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0097	3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
CHV-1-83P	Manifold mounting package (in- cludes bolts and pipe plugs).
CHV-1-83SS-P	Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.
CHV-27-0083	Alternator bracket. Use where engine water pump is mounted on port side of engine below alternator.
CHV-47-0000	Manifold to cylinder head gasket.

-6-1/8

6-1/8"

Note:

9-1/2"

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

Part Numbe

2-9/16





Discharge	"C"		1	"A"		
Indmar	V8-427 an	d 454 C.I.	D. All M	odels Ir	boa	rd -
Part Number		_ in				interr
20-0000	5 0	CENTER RISER G	ENERIC			Wate

20 0082

20 0084P

20 0088P



CHVA 1 84

20 0097

20 0087P



20-0000

20 0100





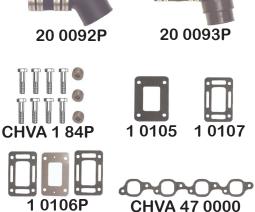
20 0086P



20 0089P







Note:
Manifold includes all plugs, gaskets and mounting
hardware to head. Risers include plugs, gasket and
mounting hardware to mount to manifold.

8-1/2"

fold to fit the big block GM engine (3/4" N.P.T. cooling hose con- nections). All years.20-0082Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.20-0100Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.1-0104PAdaptor package for fresh water cooled manifold (includes gaskets and block off plate).1-0105Center riser manifold-to-riser gaske for fresh water cooling.1-0106PAdaptor package for raw water cooling. Used in pre-heating applica tions (includes gaskets and block off plate with vent hole).1-0107Center riser manifold-to-riser gaske (raw water cooling).20-0082PRiser mounting package for both 20-0082P20-0082PStainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.20-0084PStraight exhaust adaptor (includes adaptor, hose and clamps). For use with 3 1/2" I.D. exhaust hose.20-0085PStraight exhaust adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.20-0086P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.20-0082P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.20-0085P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" I.D. exhaust hose.20-0086P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaus	CHVA-1-84	Water cooled center discharge mani
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(includes adaptor, hose and clamps) For use with 3 1/2" or 4" I.D. exhause 20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (includes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes solts and pipe plugs). Not pictured.		For use with 3" I.D. exhaust hose.
(includes adaptor, hose and clamps) For use with 3 1/2" or 4" I.D. exhause hose. 20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (includes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.	20-0093P	90 degree exhaust elbow adaptor
For use with 3 1/2" or 4" I.D. exhaushose. 20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (includes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		(includes adaptor, hose and clamps).
20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (includes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		For use with 3 1/2" or 4" I.D. exhaust
mounting hardware, gasket and 3/4 pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (includes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.	20.000	
pipe plug). Capable of stacking. CHVA-1-84P Manifold mounting package (includes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.	20-0097	3" spacer block (complete with
CHVA-1-84PManifold mounting package (in- cludes bolts and pipe plugs).CHVA-1-84SS-PStainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		mounting nardware, gasket and 3/4"
cludes bolts and pipe plugs). CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.		
CHVA-1-84SS-P Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.	CHVA-1-84P	Manifold mounting package (in-
package (includes stainless bolts and brass plugs). Not pictured.	CIIVA 1 9400 D	
brass plugs). Not pictured.	СП VA-1-8488-Р	stainless steel manifold mounting
		brass plugs). Not pictured
VIENTIAL AND A CONTRACT READ GOVERNMENT AND A CONTRACT READ A GOVERNMENT A CONTRACT READ A GOVERNMENTA A CONTRACT READ A CONTRACT A CONTRACT READ A CONTRACT A CONTRACT READ A CONTRACT A CO	CHVA-47-0000	Manifold to cylinder head gasket.
within it cynneer nead gasket.	011 11-1/-0000	mannola to cynnuci neau gasket.

-2'

Internal

Water incharge





CENTER RISER GENERIC

Indmar V8-302 and 351 C.I.D. All Models Inboard 1/8



8-1/2"

FM-1-83	Water cooled conter discharge mani
FM-1-85	Water cooled center discharge mani- fold to fit the small block Ford engine (3/4" N.P.T. cooling hose con-
	nections). All years.
20-0082	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con- nection). Standard for use with 3"
	I.D. exhaust hose.
20-0100	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 4"
20-0102	I.D. exhaust hose.
20-0102	Water cooled center discharge riser (3/4" N.P.T. cooling hose con-
	nection). Replaces Indmar # 532009.
1-0104P	Adaptor package for fresh water
	cooled manifold (includes gaskets
	and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water
	cooling. Used in pre-heating applica-
	tions (includes gaskets and block off
1.0105	plate with vent hole).
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0082P	Riser mounting package for both
20 00021	20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package
	(with brass plugs) for both 20-0082
20.0004D	and 20-0100. Not pictured.
20-0084P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use
	with 3 1/2" I.D. exhaust hose.
20-0085P	Straight exhaust adaptor (includes
	adaptor, hose and clamps). For use
20.000CD	with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps).
	For use with 2 1/2" I.D. exhaust hose.
20-0087P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0092P	45 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0093P	
	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps).
	For use with 3 1/2" or 4" I.D. exhaust
20,0007	hose.
20-0097	3" spacer block (complete with mounting hardware, gasket and 3/4"
	pipe plug). Capable of stacking.
FM-1-83P	Manifold mounting package (in-
	cludes bolts and pipe plugs).
FM-1-83SS-P	Stainless steel manifold mounting
	package (includes stainless bolts and brass plugs). Not pictured.
FM-47-0000	Manifold to cylinder head gasket.
1/ 0000	mannora to cynnicer neua guoket.

2-9/16

2-9/16

6-1/8"



Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



8-1/2"

9-1/2"

Part Number



Port side part # INT 1 5457L



INT 1 5457R





20 0000





20 0035

20 0034

INT-1-5457L	Water cooled exhaust manifold (port side) for the Ford engine. Use with Barr risers and exhaust connectors. The original Interceptor exhaust connectors are not applicable to the Barr manifolds.
INT-1-5457R	Water cooled exhaust manifold (star- board) for the Ford engine. Use with Barr risers and exhaust connectors. The original Interceptor exhaust connectors are not applicable to the Barr manifolds.
1-0022	End plate gasket (will fit both ends).
INT-1-5457P	Manifold to cylinder head mounting kit.
20-0000	Swivel-type high discharge exhaust riser; 8 1/2" riser protection. Requires (1) mounting hardware kit #20-0002P per riser. Use only with 2 7/8" to 3" I.D. exhasut hose.
20-0002P	Mounting hardware kit (Barr style riser/elbows only).
20-0031	Swivel-type 90 degree exhaust elbow connector with internal water dis- charge. Accepts 2 1/2" to 3" I.D. ex- haust hose. Requires (1) mounting hardware kit #20-0002P per elbow.
20-0034 or 20-0035	Exhaust connector #20-0035 (for 2 1/2" I.D. exhaust hose) or exhaust connector #20-0034 (for 3" I.D. exhaust hose). Connects to #20-0039 using (1) #20-0002P per connector.
20-0039	Fully jacketed swivel-type exhaust riser; 7" riser protection. Requires (2) mounting hardware kits #20-0002P ((1) kit to mount riser to manifold and (1) kit to mount elbows 20-0034 or 20-0035 to riser).
20-0055	Swivel-type 30 degree exhaust elbow connector; fully jacketed. Accepts 2 1/2" or 3" I.D. exhaust hose. Re- quires (1) mounting hardware kit #20-0002P per elbow.



20 0039



.9-1/2"-

Dart



1 0022

8-1/2"



30

.5/8

"A

2-9/16"

_6-1/8"

/8"

6-

Interceptor V8-221, 260 and 289 C.I.D. Models 120, 140, 165, 190, 200 and 210 H.P. LOG STYLE GENERIC

Port side part # INT 1 6268L



INT 1 6268R





20 0000

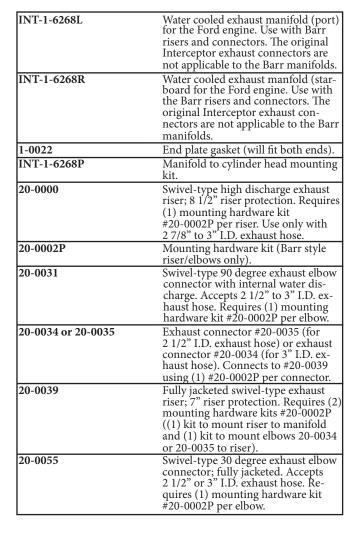


20 0055





20 0034







8-1/2



Part Number



16 -9

6-1/8

18' 6-





INT-1-58L

Port side part # INT 1 58L



INT 1 58R



20 0000



20 0031





20 0055

for the Ford engine. Use with Barr risers and connectors. The original Interceptor exhaust connectors are not applicable to the Barr manifolds. Water cooled exhaust manifold (star-board) for the Ford engine. Use with INT-1-58R Barr risers and connectors. The original Interceptor exhaust con-nectors are not applicable to the Barr manifolds. 1-0019 End plate gasket (will fit both ends). INT-1-58P Manifold to cylinder head mounting Swivel-type high discharge exhaust riser; 8 1/2" riser protection. Requires 20-0000 (1) mounting hardware kit #20-0002P per riser. Use only with 2 7/8" to 3" I.D. exhasut hose. Mounting hardware kit (Barr style riser/elbows only). 20-0002P Swivel-type 90 degree exhaust elbow connector with internal water dis-charge. Accepts 2 1/2" to 3" I.D. ex-haust hose. Requires (1) mounting 20-0031 hardware kit #20-0002P per elbow. Exhaust connector #20-0035 (for 2 1/2" I.D. exhaust hose) or exhaust connector #20-0034 (for 3" I.D. ex-20-0034 or 20-0035 haust hose). Connects to #20-0039 using (1) #20-0002P per connector. Fully jacketed swivel-type exhaust 20-0039 riser; 7" riser protection. Requires (2) mounting hardware kits #20-0002P ((1) kit to mount riser to manifold and (1) kit to mount elbows 20-0034 or 20-0035 to riser). Swivel-type 30 degree exhaust elbow connector; fully jacketed. Accepts 2 1/2" or 3" I.D. exhaust hose. Re-20-0055 quires (1) mounting hardware kit

#20-0002P per elbow.

Water cooled exhaust manifold (port)









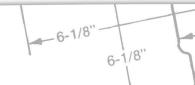
Dart

5/8

11 0

2-9/

16



8-1/2"

8-1/2" .9/16" ALL MODELS CENTER RISER GENERIC

Interceptor V8-221, 260, 289, 302 and 351 C.I.D. 6-1/8



FM 183

20 0084P

20 0087P

20 0092P

20 0082

20 0085P

20 0088P

20 0093P

1 0 1 0 7



20 0100



20 0097













1 0104P

Note:

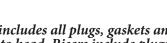




1 0 1 0 5



8-1/2"



FM 1 83P

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



1	
FM-1-83	Water cooled center discharge mani- fold to fit the small block Ford engine (3/4" N.P.T. cooling hose con- nections). All years.
20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con-
	nection). Standard for use with 3" I.D. exhaust hose.
20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off plate with vent hole).
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0082P	Riser mounting package for both 20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.
20-0084P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 3 1/2" I.D. exhaust hose.
20-0085P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0087P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0092P	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0093P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.
20-0097	3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
FM-1-83P	Manifold mounting package (in- cludes bolts and pipe plugs).
FM-1-83SS-P	Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.
FM-47-0000	Manifold to cylinder head gasket.

6-1/8"

(](

Part Number

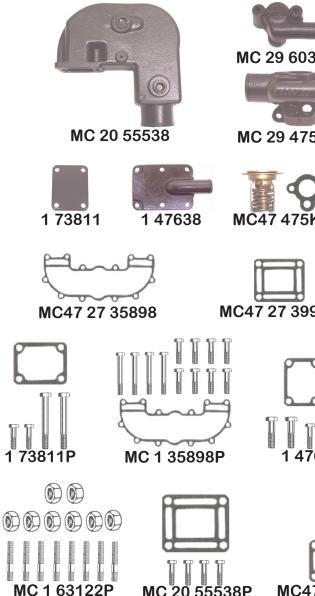
2-9/16

9-1/2"

MerCruiser 4 Cylinder 153 C.I.D. 120 H.P. 20-0000 LOG STYLE DIRECT REPLACEMENT Model 120 Engine



MC 1 6



	88			
MC	20	55	53	8 P

8-1/2"



MC 29 47587



1 47638P

P-9
MC47 27 39923

Ø 555 8
MC47 27 35898A4

"A

2-9/16



2

Internal

Water



6-1/8"

/8"

6-



34

Part NUM

5/8

.9-1/2"-

20 Engine LOG STYLE DIRECT REPLACEMENT Water				
	MC-1-63122	Direct replacement water cooled exhaust manifold. Replaces Mer- Cruiser part # B-63122A1.		
	MC-20-55538	Direct replacement exhaust elbow/ riser. Replaces MerCruiser part # B-39920 and # B-55538A2.		
	MC-20-55538P	Riser to exhaust manifold mounting package.		
63122	1-39949P	Choke oven cover assembly. Not pictured.		
	1-47638	Direct replacement exhaust manifold end cap/connector (front). Replaces MerCruiser part # B-47638.		
	1-47638P	Exhaust manifold end cap/connector (front) mounting package.		
MC 29 60372	1-73811	Direct replacement exhaust manifold		

1-73811P

MC-1-35898P

MC-1-63122P

MC-29-47587

MC-29-60372

MC47-475KIT

MC47-27-35898

MC47-27-39915

MC47-27-39917

MC47-27-39923

MC47-27-52546

Note:

MC47-27-35898A4

end cap (rear).

housing.

housing.

gasket.

Manifold includes all plugs, gaskets and mounting hardware to head. Riser includes plugs, gasket and

mounting hardware to mount to manifold.

thermostat).

end cap gasket.

mounting package.

Exhaust manifold end cap (rear)

Intake manifold mounting package. Exhaust manifold mounting package.

Direct replacement lower thermostat

Direct replacement upper thermostat

Thermostat kit (includes gasket and

Direct replacement intake manifold

Direct replacement exhaust manifold

Direct replacement exhaust manifold

Direct replacement exhaust manifold

Direct replacement exhaust manifold

Exhaust manifold gasket set.

to exhaust elbow gasket.

end cap/connector gasket.

to cylinder head gasket.

173811







LOG STYLE DIRECT REPLACEMENT Model 140 Engine

MerCruiser 4 Cylinder 181 C.I.D. 140 H.P.



MC 1 52390



MC 20 60426



MC 20 61851A3



MC47 27 52076



MC47 27 73814





NO 1 52200	
MC-1-52390	Direct replacement water cooled exhaust manifold. Replaces Mer-
	Cruiser part # B-52390A1. For serial # 3332138 and up.
MC-20-60426	Direct replacement exhaust elbow
	riser (utilizes a stainless steel sleeve
	at the water/air mixing area). Re-
	places MerCruiser part #B-60426A1.
MC-20-76351	Direct replacement exhaust elbow
	riser. Replaces MerCruiser part #
1-54870	B-76351A1. Not pictured.
1-548/0	Direct replacement exhaust manifold
	rear end cap. Serial # 4481625 and below.
1-54870P	Rear end cap mounting package.
1-60252	Direct replacement exhaust manifold
1-00232	end cap/connector. Replaces Mer-
	Cruiser part # B-60252.
1-60252P	Front end plate mounting package.
1-73813	Direct replacement exhaust manifold
	rear end cap. Serial # 4481625 and up.
MC-1-52390P	Exhaust manifold mounting package.
MC-20-55730	Stainless steel fresh water cooling
	block off plate for use with Mer-
	Cruiser riser #'s 60426, 76351 and
	76771. Requires (2) gaskets part # MC47-27-52076.
MC-20-60207	Stainless steel block off plate (with
	vent hole) for use with MerCruiser
	riser #'s 60426, 76351 and 76771. Re-
	quires (2) gaskets part # MC47-27-
	52076. Used in pre-heating plumbing systems.
MC-20-60426P	Exhaust riser elbow mounting
MIC-20-00420P	package. For use with both MC-20-
	60426 and MC-20-76351 risers.
MC-20-61851A3	Manifold to riser 3" spacer (single
	block). Includes all mounting hard-
	ware, gaskets and drain plug.
MC-29-47587	Lower thermostat housing.
MC-29-60372	Upper thermostat housing.
MC47-475KIT	Thermostat kit (includes gasket and thermostat).
MC47-27-48043	Direct replacement exhaust manifold
11017-27-10013	end cap/connector gasket (will fit
	both ends).
MC47-27-52076	Direct replacement exhaust elbow to
	exhaust manifold gasket.
MC47-27-53354	Direct replacement exhaust manifold
	to cylinder head gasket.
MC47-27-53354A1	Exhaust manifold gasket set.
MC47-27-73814	Direct replacement exhaust manifold
	end cap gasket. Utilized with 1-73813
	rear end cap.

- 6-1/8'

18' 6-1

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Riser includes plugs, gasket and mounting hardware to mount to manifold.

2-9/16





MC47 27 48043

8-1/2"

9-1/2"

Part Number

Part Number Models 120 R and 140R-MR/Alpha 1 Engine



MC 1 99798



MC 20 76325 MC 20 12076

Discharge



MC 29 47587





1 99179



RR

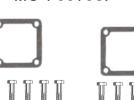
MC47 475KIT

MC 20 61851A3

MC 20 76325P

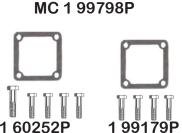


MC47 27 73814



O.D.D.D.D.

MC47 27 99777A1





	manifold (Rochester (3 1/4" X 1 7/8")
	bolt pattern). 6 bolt mounting. Re-
	places MerCruiser part # 95862A9
	(no choke stove).
MC-1-96705	Direct replacement water cooled
	manifold (Rochester (3 1/4" X 1 7/8")
	bolt pattern). 6 bolt mounting. Re-
	places MerCruiser part # 96705A1.
MC-1-99798	Direct replacement water cooled
	manifold (MerCarb (3 11/16" X 2")
	bolt pattern). 6 bolt mounting. Re-
	places MerCruiser part # 99798A9.
MC-20-12076	Direct replacement exhaust riser. Re-
	places MerCruiser part # 12076A2.
MC-20-76325	Direct replacement exhaust riser. Re-
	places MerCruiser part # 76325A2.
1-60252	Direct replacement exhaust manifold
	end cap/connector. Replaces Mer-
	Cruiser part # B-60252.
1-60252P	Front end plate mounting package.
1-99197	Direct replacement exhaust manifold
	rear end cap/lifting eye.
1-99179P	Rear end cap mounting package.
MC-1-99798P	Exhaust manifold to cylinder head
	mounting package.
MC-20-12076	P/Riser mounting package
MC 20 (105142	
MC-20-61851A3	Manifold to riser 3" spacer (single
	block). Includes all mounting hard- ware, gaskets and drain plug.
MC-29-47587	Lower thermostat housing.
MC-29-60372	
MC-29-60572 MC47-475KIT	Upper thermostat housing.
	Thermostat kit (includes gasket and thermostat).
MC47-27-48043	Direct replacement exhaust manifold
	end cap/connector gasket (will fit
	both ends).
MC47-27-73814	Direct replacement exhaust manifold
	end cap gasket. Utilized with 1-73813 rear end cap.
MC47-27-96429	Direct replacement exhaust manifold
	to cylinder head gasket.
MC47-27-99777	Direct replacement exhaust elbow to
	manifold gasket. Supersedes Mer-
	Cruiser part # 27-52076.
MC47-27-99777A1	Exhaust manifold gasket set.

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.









MerCruiser 4 Cylinder 181 C.I.D. 140 H.P. 3.0L & 3.0LX Models

All Models 1990 and Up (Vortec Style Head) mber LOG STYLE DIRECT REPLACEMENT

MC 1 860235

MC 20 12076 MC 20 12076P

50 170 207

50 512 020

MC47 27 99777-2

MC47 27 807982

MC47 27 815528

MC 50 865549

MC 50 10 53728

MC 50 10 806300

MC 50 11 24883

MC 50 11 862902

MC 50 12 20553

MC 50 22 806608

MC 50 22 845175

MC 50 22 862557

MC 50 22 862065

MC 50 25 32506

MC 50 32 14797

Note:

MC 50 10 53728

MC 50 23 861634



MC 1 860235





MC 20 12076





MC 20 12076P







MC 50 11 24883







MC 50 22 862065 MC 50 22 806608 MC 50 11 862902







.9/16

Direct replacement exhaust manifold. Replaces MerCruiser part #

Direct replacement exhaust riser. Re-places MerCruiser part # 12076A2.

3/8"-16 X 3/4" Hex Head Cap Screw

Replacement exhaust riser to manifold gasket. Supersedes MerCruiser part # 27-52076 and 27-99777.

Replacement carburetor to intake/ exhaust manifold gasket.

Replacement cylinder head to exhaust

Replacement 3/8"-16 X 4 5/8" screw.

Replacement 3/8" X 5 3/8" stud.

Replacement reducer bushing, 3/4"

Replacement cooling water hose,

Replacement bushing, 3/8 X 1/2 NPT. Replacement 90 degree adaptor

Exhaust riser mounting kit.

(for mounting lifting eye).

manifold gasket.

Replacement nut.

Replacement nut.

Replacement washer.

Replacement O-Ring.

Replacement fuel line.

Lifting eye.

Drain plug.

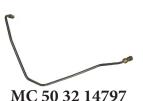
to 3/8".

assembly.

formed.

Fitting, 3/4" N.P.T. X 1" hose.

860235A04.



MC 50 10 806300



MC47 27 815528

MC 50 12 20553

8-1/2





Part Number



MerCruiser Straight 6 Cylinder Model 165 LOG STYLE DIRECT REPLACEMENT

MC47 475KIT

.9-1/2"-

MC-1-58759

MC-20-60426

MC-20-76351



MC 1 58759

MC 20 61851A3

MC 29 60372

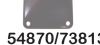


20-0000





MC 29 47587



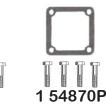
1 60252P

MC 20 60207

MC 1 58764P

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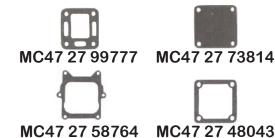




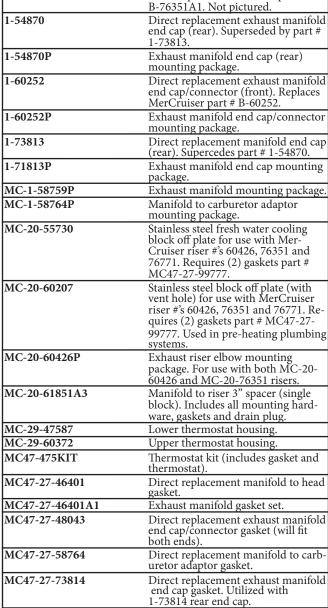


1 60252

MC 20 55730



	1-002321	mounting package.
	1-73813	Direct replacement m (rear). Supercedes par
	1-71813P	Exhaust manifold end package.
72 MC 20 60426P	MC-1-58759P	Exhaust manifold mo
	MC-1-58764P	Manifold to carbureto mounting package.
	MC-20-55730	Stainless steel fresh wa block off plate for use Cruiser riser #'s 60426 76771. Requires (2) ga MC47-27-99777.
MC 1 58759P	MC-20-60207	Stainless steel block o vent hole) for use with riser #'s 60426, 76351 quires (2) gaskets part 99777. Used in pre-he systems.
	MC-20-60426P	Exhaust riser elbow m package. For use with 60426 and MC-20-76.
	MC-20-61851A3	Manifold to riser 3" sp block). Includes all m ware, gaskets and drai
	MC-29-47587	Lower thermostat hou
MC47 27 46401A1	MC-29-60372	Upper thermostat hou
	MC47-475KIT	Thermostat kit (inclue thermostat).
MC47 27 46401	MC47-27-46401	Direct replacement m gasket.
	MC47-27-46401A1	Exhaust manifold gas
•	MC47-27-48043	Direct replacement ex



Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

8-1/2



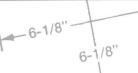
38

Part Num

5/8

MC47-27-99777





Direct replacement exhaust elbow to manifold gasket. Supersedes Mer-Cruiser part # 27-52076.

Internal

charge

Water

Direct replacement water cooled manifold to fit the 6 cyl. GM (Model 165) engine. Replaces MerCruiser part # B-58759A1. Direct replacement exhaust elbow riser (utilizes a stainless steel sleeve

at the water/air mixing area). Replaces MerCruiser part #B-60426A1.

Direct replacement exhaust elbow

riser. Replaces MerCruiser part #

MerCruiser V6-229 C.I.D. and 262 C.I.D.

Models 185R, 185MR, 205R and 205MR CENTER RISER DIRECT REPLACEMENT



MC 1 99746



MC 20 44354







MC 20 93320A3













8-1/2







MC-1-99746	Direct replacement water cooled exhaust manifold. Replaces Mer- Cruiser part # 99746A3 or part # 99746A8.	
MC-20-44354	Direct replacement water cooled center discharge riser. Replaces Mer- Cruiser part # B-44354A3. Accepts 4" I.D. exhaust hose (8 degree angle).	
MC-20-98504	Direct replacement water cooled center discharge riser. Replaces Mer- Cruiser part #98504A3. Accepts 3" I.D. exhaust hose (15 degree angle).	
MC-20-44354P	Mounting package for MC-20-44354 riser.	
MC-20-87918	Direct replacement stainless steel block off plate for use with Mer- Cruiser riser #'s 98502, 98504 and 44354. Requires (2) gaskets part # MC47-27-41813.	
MC-20-93320A3	Manifold to riser 3" spacer blocks (pair) with fastener and gasket package.	
MC-20-93322A3	Manifold to riser 6" spacer blocks (pair) with fastener and gasket package.	
MC-20-98504P	Mounting package for MC-20-98504 riser (includes gaskets, drain plug, pipe plug, stainless steel restrictor plate and fasteners).	
MC-20-99208	Direct replacement stainless steel restrictor plate for use with Mer- Cruiser riser #'s 98502, 98504 and 44354. Requires (2) gaskets part # MC47-27-41813.	
MC-27-93175	Alternator bracket.	
MC47-27-41811	Direct replacement restrictor gasket. Replaces MerCruiser part # 27-41811. To be used with MC-20-87918 ((2) required per plate used).	
MC47-27-41813	Direct replacement restrictor gasket. Replaces MerCruiser part # 41813.	
MC47-27-87105	Direct replacement exhaust elbow gasket. Replaces MerCruiser part # 27-87105.	
MC47-27-99757	Direct replacement manifold to head gasket.	

-1/8

6-1/8

Note:

MC-50-87238

MC-50-806926

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



Part Numbe



9/16

Exhaust manifold drain cock.

Replacement 3/4" N.P.T. X 1" hose

fitting (90 degree)/brass drain cock.



MerCruiser V8-283, 302, 3 Part Number 20-000 All MODELS CEN	05, 307, 327 TER RISER GENERIC	Internal
	CHV-1-83	Water cooled center discharge mani- fold to fit the small block GM engine (3/4" N.P.T. cooling hose con- nections). All years.
e and O and Co	20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.
5 6 6 6 6 8	20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con-

CHV 1 83

20 0084P

20 0087P

20 0082

20 0085P

20 0088P

20 0093P

CHV 1 83P

1 0106P









20 0086P











20 0092P







Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

8-1/2"



40

.9-1/2"-

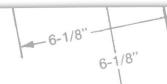
Dart

CHV-1-83	water cooled center discharge mani- fold to fit the small block CM anging
	fold to fit the small block GM engine (3/4" N.P.T. cooling hose con-
	nections). All years.
20-0082	
20-0082	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 3"
	I.D. exhaust hose.
20-0100	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 4"
	I.D. exhaust hose.
1-0104P	Adaptor package for fresh water
	cooled manifold (includes gaskets
	and block off plate).
1-0105	Center riser manifold-to-riser gasket
1-0105	for fresh water cooling.
1-0106P	Adaptor package for raw water
1-0100P	
	cooling. Used in pre-heating applica-
	tions (includes gaskets and block off
	plate with vent hole).
1-0107	Center riser manifold-to-riser gasket
	(raw water cooling).
20-0082P	Riser mounting package for both
	20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package
	(with brass plugs) for both 20-0082
	and 20-0100. Not pictured.
20-0084P	Straight exhaust adaptor (includes
20-00841	adaptor, hose and clamps). For use
	with 3 1/2" I.D. exhaust hose.
20-0085P	
20-0085P	Straight exhaust adaptor (includes
	adaptor, hose and clamps). For use
20.000 <i>(</i> D	with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor for
	I/O applications (includes adaptor,
	hose and clamps). For use with 2 1/2"
	I.D. exhaust hose.
20-0087P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with $\frac{1}{2}$ 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor
20 00001	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0092P	45 degree exhaust elbow adaptor
20-0092P	45 degree exhaust eroow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0093P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3 1/2" or 4" I.D. exhaust
	hose.
20-0097	3" spacer block (complete with
	mounting hardware, gasket and 3/4"
	pipe plug). Capable of stacking.
CHV-1-83P	Manifold mounting package (in-
	cludes bolts and pipe plugs).
CHV-1-83SS-P	Stainless steel manifold mounting
	package (includes stainless bolts and
	brass plugs). Not pictured.
CHV-27-0083	Alternator bracket. Use where engine
011 - 27 - 0005	
	water pump is mounted on port side of engine below alternator.
MC 45 0002	
MC-45-0002	Fuel filter/solenoid bracket.
CHV-47-0000	Manifold to cylinder head gasket.
0111 17 0000	



"A'

2-9/16



MerCruiser V8-198, 228, 255, 260 and 898

LOG STYLE DIRECT REPLACEMENT Inboard and Stern-Drive Units



MC 1 77234



MC-1-77234	Direct replacement water cooled exhaust manifold (port side). Re-
	places MerCruiser part # B-77234A2.
MC-1-77235	Direct replacement water cooled exhaust manifold (starboard side). Replaces MerCruiser part # B-77235A2.
MC-20-60426	Direct replacement exhaust elbow riser (utilizes a stainless steel sleeve at the water/air mixing area). Re- places MerCruiser part #B-60426A1 (I/O applications).
MC-20-76351	Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-76351A1(I/O applications). Not pictured.
MC-20-76771	Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-76771A3 (inboard applications).
1-60252	Direct replacement exhaust manifold end cap/connector. Replaces Mer- Cruiser part # B-60252.
1-60252P	Front end plate mounting package.
1-73813	Direct replacement manifold end cap (rear). Supercedes part # 1-54870.
1-73813P	Rear end cap mounting package.
MC-1-7723P	Riser mounting stud package.
MC-1-77234P	Manifold mounting package.
MC-1-7723D MC-20-55730	Riser mounting package.
MC-20-33730	Stainless steel fresh water cooling block off plate for use with Mer- Cruiser riser #'s 60426, 76351 and 76771. Requires (2) gaskets part # MC47-27-99777.
MC-20-60207	Stainless steel block off plate (with vent hole) for use with MerCruiser riser #'s 60426, 76351 and 76771. Re- quires (2) gaskets part # MC47-27- 99777. Used in pre-heating plumbing systems.
MC-20-60426P	Éxhaust riser elbow mounting package. For use with both MC-20- 60426 and MC-20-76351 risers.
MC-20-61851A2	Manifold to riser 3" spacers (sold in pairs). Includes all mounting hard-ware, gaskets and drain plugs.
MC-27-48104	Alternator mounting bracket.
MC-29-47441	Upper thermostat housing.
MC-29-78984	Lower thermostat housing.
MC47-488KIT	Thermostat kit (includes gasket and thermostat).
MC47-27-33395	Direct replacement exhaust manifold to head gasket.
MC47-27-33395A2	Exhaust manifold gasket set.
MC47-27-48043	Direct replacement exhaust manifold end cap/connector gasket (will fit both ends).
MC47-27-99777	Direct replacement exhaust elbow to manifold gasket. Supersedes Mer- Cruiser part # 27-52076.

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Riser includes plugs, gasket and mounting hardware to mount to manifold.

MC47 27 48043 **MARINE BY EDM** MC47 27 99777

Part Number

9-1/2"

BA

8-1/2"



-6-1/8

6-1/8"



2-9/16

All Models Carbureted, MPI, Inboard, Alpha and Bravo Stern Drives Water CENTER RISER DIRECT REPLACEMENT

MerCruiser V8-5.0L, 5.7L and 6.2L "Dry Joint" Exhau

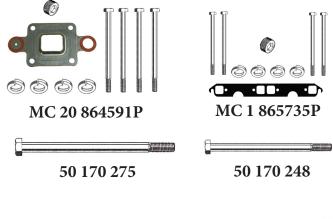


Discharge

MC 1 865735



MC 20 864591



8-1/2"

MC-1-865735	Direct replacement exhaust manifold Replaces MerCruiser part# 865735A02
MC-20-864591	Direct replacement exhaust riser/ elbow. Replaces MerCruiser part # 864591T02. Riser will replace the equivalent part number used on 4.3L Models as well.
MC-1-865735P	Exhaust manifold mounitng package Riser gasket sold seperately. Purchase correct gasket as needed. Not shown
MC-20-864591P	Exhaust riser mounting package. Include restrictor gasket for raw water coolec applications.
MC47-27-864850	Direct replacement restrictor gasket. Replaces MerCruiser part # 864850A02 Please refer to supplied directions or OEM information for proper installation procedures.
MC47-27-864547	Direct replacement full flow gasket. Replaces MerCruiser part # 864547A02 Please refer to supplied directions or OEM information for proper installation procedures.
MC47-27-864549	Direct replacement block off gasket. Replaces MerCruiser part # 864549A0 Please refer to supplied directions or OEM information for proper installation procedures.
CHV-47-0000	Exhaust manifold to cylinder head gasket.
50-170-248	Replacement manifold mounting bolt Replaces MerCrusier part # 8M2000229 (to be used with 3/8" lockwasher). Dimensions of bolt is 3/8"-16 X 4.75
50-170-275	Replacement riser mounting and 6 inch spacer block mounting bolt. Replaces MerCruiser part # 865982057 (to be used with 3/8" lockwasher). Dimensions of bolt is 3/8"-16 X 7.50'

Note:

Manifold includes all applicable plugs, mounting hardware and manifold to cylinder head gasket. Riser includes all applicable plugs and mounting hardware only.



MC47 27 864850

.9-1/2"

MC47 27 864547

11 0

2-9/

16

MC47 27 864549

-6-1/8"

18

6.

Note: Always use correct riser gasket for your application. Please refer to the correct guide to install gaskets correctly.

Note: Improperly installed gasket, leaks or damage caused by either are not covered by your Barr Marine warranty! Gaskets are not subject to exchange or refund under any circumstances.



MerCruiser V8-4.3L, 5.0L, 5.7L and 6.2L "Dry Joint" Spacers 0/16

All Models Carbureted, MPI, Inboard, Alpha and Bravo Stern Drives **CENTER RISER DIRECT REPLACEMENT**

6-1

16'

Part Numbe

	MC-20-864908A1	Direct replacement 6 inch spacer kit. Replaces MerCruiser part # 864908A1. Kit includes a pair of spacers, mounting hardware and gaskets for raw water cooled applications. Need to purchase additional block off gaskets for closed cooled applications. Sold as shown.
	MC-20-864929A3	Direct replacement 3 inch spacer kit. Replaces MerCruiser part # 864929A 3. Kit includes a pair of spacers, mounting hardware and gaskets for raw water cooled applications. Need to purchase additional block off gaskets for closed cooled applications. Sold as shown.
	MC-20-864908A1P	Six inch spacer mounting package. Includes all items less the spacers and brackets. Not shown seperate.
	MC-20-864908A1P	Three inch spacer mounting package. Includes all items less the spacers and brackets. Not shown seperate.
	MC47-27-864850	Direct replacement restrictor gasket. Replaces MerCruiser part # 864850A02 Please refer to supplied directions or OEM information for proper installation procedures.
MC 20 864908A1	MC47-27-864547	Direct replacement full flow gasket. Replaces MerCruiser part # 864547A02 Please refer to supplied directions or OEM information for proper installation procedures.
Eispie Eispie	MC47-27-864549	Direct replacement block off gasket. Replaces MerCruiser part # 864549A02 Please refer to supplied directions or OEM information for proper installation procedures.
	50-170-210	Replacement spacer mounting bolts. Replaces MerCrusier part # 865982005 (to be used with 3/8" lockwasher). Dimensions of bolt is 3/8"-16 X 1.00".
	50-170-275	Replacement riser mounting and 6 inch spacer block mounting bolt. Replaces MerCruiser part # 865982057 (to be used with 3/8" lockwasher). Dimensions of bolt is 3/8"-16 X 7.50".
	50-170-295	Replacement riser mounting and 3 inch spacer block mounting bolt. Replaces MerCruiser part # 865982077 (to be used with 3/8" lockwasher). Dimensions of bolt is 3/8"-16 X 10.50".
	50 170 295	50 170 295 50 170 210
MC 20 864929A3		

MC 20 864929A3

Note: Always use correct riser gasket for your application. Please refer to the correct guide to install gaskets correctly.

Note: Improperly installed gasket, leaks or damage caused by either are not covered by your Barr Marine warranty! Gaskets are not subject to exchange or refund under any circumstances.



8-1/2'

CENTER RISER DIRECT REPLACEMENT

MerCruiser V8 Models 898R, 228R and 260R



MC 1 87114



Discharge

Part Number

20-0000

MC 20 44354



MC 20 98502





MC 50 806926

MC 20 98504P



MC 50 87238

8-1/2'

MC47 27 41811



MC 29 87290

MC 20 98504

MC 20 93320A3



MC-1-87114	Direct replacement water cooled exhaust manifold. Replaces Mer- Cruiser part # 87114A8, 87114A19
	and #860246A10.
MC-20-44354	Direct replacement water cooled center discharge riser. Replaces Mer- Cruiser part # B-44354A3. Accepts 4" I.D. exhaust hose (8 degree angle).
MC-20-98502	Direct replacement water cooled center discharge riser. Replaces Mer- Cruiser part #98502A2. Accepts 3" I.D. exhaust hose (0 degree angle).
MC-20-98504	Direct replacement water cooled center discharge riser. Replaces Mer- Cruiser part #98504A3. Accepts 3" I.D. exhaust hose (15 degree angle).
MC-20-44354P	Mounting package for MC-20-44354 riser.
MC-20-87918	Direct replacement stainless steel block off plate for use with Mer- Cruiser riser #'s 98502, 98504 and 44354. Requires (2) gaskets part # MC47-27-41813.
MC-20-93320A3	Manifold to riser 3" spacer blocks (pair) with fastener and gasket package.
MC-20-93322A3	Manifold to riser 6" spacer blocks (pair) with fastener and gasket package.
MC-20-98504P	Mounting package for MC-20-98504 riser (includes gaskets, drain plug, pipe plug, stainless steel restrictor plate and fasteners).
MC-20-99208	Direct replacement stainless steel restrictor plate for use with Mer- Cruiser riser #'s 98502, 98504 and 44354. Requires (2) gaskets part # MC47-27-41813.
MC-27-93175	Alternator bracket.
MC-29-47441	Upper thermostat housing.
MC-29-87290	Lower thermostat housing.
MC47-27-33395	Direct replacement exhaust manifold to head gasket.
MC47-27-41811	Direct replacement restrictor gasket. Replaces MerCruiser part # 27-41811. To be used with MC-20-87918 ((2) required per plate used).
MC47-27-41813	Direct replacement restrictor gasket. Replaces MerCruiser part # 27-41813.
MC47-27-87105	Direct replacement exhaust elbow gasket. Replaces MerCruiser part # 27-87105.
MC-50-87238	Exhaust manifold drain cock.
MC-50-806926	Replacement 3/4" N.P.T. X 1" hose fitting (90 degree)/brass drain cock.

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

"A"

2-9/16



5/8



Internal

charge

Water

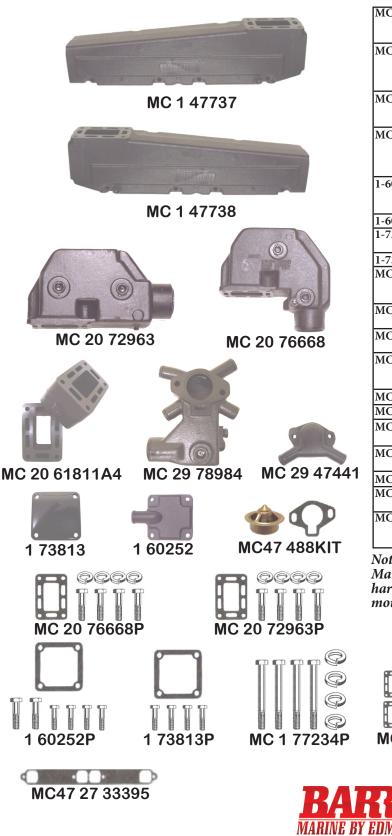




Dart

MARINE BY EDM

Inboard and Stern-Drive Units



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MC-1-47737	Direct replacement water cooled exhaust manifold (port side). Re- places MerCruiser part # B-47737A1.
MC-1-47738	Direct replacement water cooled exhaust manifold (starboard side). Replaces MerCruiser part # B-47738A1.
MC-20-72963	Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-72963A1 (inboard applications).
MC-20-76668	Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-76668A3, B-72964A1 and B-47877A4 (I/O applications).
1-60252	Direct replacement exhaust manifold end cap/connector. Replaces Mer- Cruiser part # B-60252.
1-60252P	Front end plate mounting package.
1-73813	Direct replacement manifold end cap (rear). Supercedes part # 1-54870.
1-73813P	Rear end cap mounting package.
MC-1-77234P	Manifold mounting package. Use this package for the MC-1-47737 and MC-1-47738 manifolds.
MC-20-72963P	Exhaust riser elbow mounting package.
MC-20-76668P	Exhaust riser elbow mounting package.
MC-20-61811A4	Manifold to riser 3" spacers (sold in pairs). Includes all mounting hard- ware, gaskets and drain plugs.
MC-29-47441	Upper thermostat housing.
MC-29-78984	Lower thermostat housing.
MC47-488KIT	Thermostat kit (includes gasket and thermostat).
MC47-27-33395	Direct replacement exhaust manifold to head gasket.
MC47-27-33395A2	Exhaust manifold gasket set.
MC47-27-48042	Direct replacement exhaust elbow to manifold gasket.
MC47-27-48043	Direct replacement exhaust manifold end cap/connector gasket (will fit both ends).

LOG STYLE DIRECT REPLACEMENT

-6-1/8

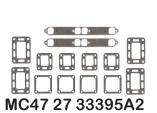
6-1/8"

Note:

MerCruiser V8-225, 250, 255, 270 and 280

Part

Manifold includes all plugs, gaskets and mounting hardware to head. Riser includes plugs, gasket and mounting hardware to mount to manifold.



9-1/2"

Part Number



2-9/16



8-1/2"

Part Number Part Number 20-0000 ALL MODELS CENTER RISER GENERIC

CHVA-1-84

20-0082

20-0100



CHVA 1 84

20 0084P

20 0087P

20 0092P



20 0100



20 0097



20 0086P



20 0089P









20 0082





20 0088P



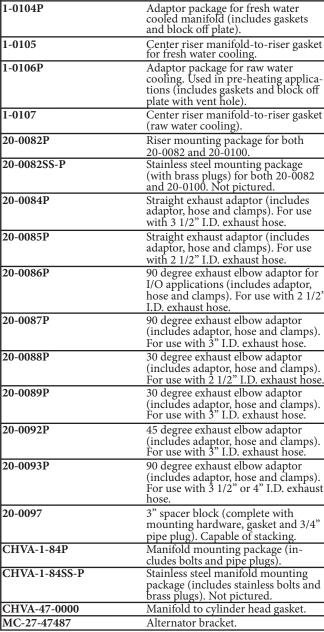






CHVA 47 0000

.9-1/2"-



Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

8-1/2'

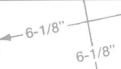


46

Part NUT

5/8





Internal

charge

Water

Water cooled center discharge manifold to fit the big block GM engine (3/4" N.P.T. cooling hose con-nections). All years.

Water cooled center discharge riser (3/4" N.P.T. cooling hose con-nection). Standard for use with 3"

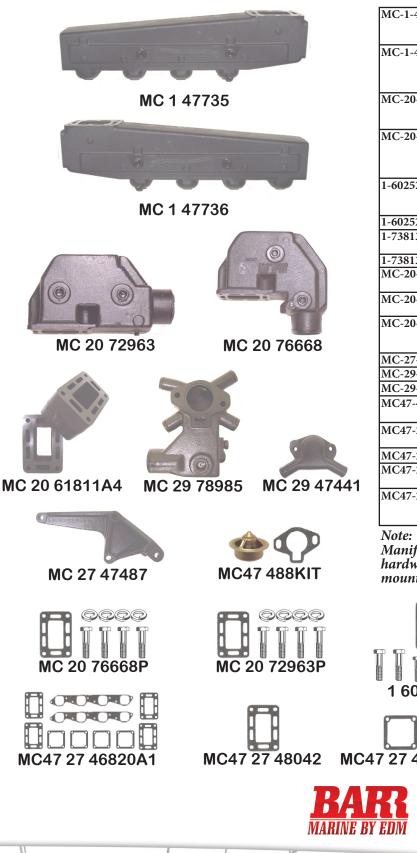
Water cooled center discharge riser (3/4" N.P.T. cooling hose con-nection). Standard for use with 4"

I.D. exhaust hose.

I.D. exhaust hose.

MerCruiser V8-325, 330, 350, 370 and 400

Inboard and Stern-Drive Units



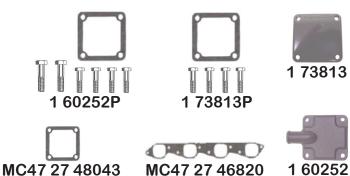
Direct replacement water cooled exhaust manifold (port side). Re- places MerCruiser part # B-47735A1.
Direct replacement water cooled exhaust manifold (starboard side). Replaces MerCruiser part # B-47736A1.
Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-72963A1 (inboard applications).
Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-76668A3, B-72964A1 and B-47877A4 (I/O applications).
Direct replacement exhaust manifold end cap/connector. Replaces Mer- Cruiser part # B-60252.
Front end plate mounting package.
Direct replacement manifold end cap (rear). Supercedes part # 1-54870.
Rear end cap mounting package.
Exhaust riser elbow mounting package.
Exhaust riser elbow mounting package.
Manifold to riser 3" spacers (sold in pairs). Includes all mounting hard- ware, gaskets and drain plugs.
Alternator bracket.
Upper thermostat housing.
Lower thermostat housing.
Thermostat kit (includes gasket and thermostat).
Direct replacement exhaust manifold to head gasket.
Exhaust manifold gasket set.
Direct replacement exhaust elbow to manifold gasket.
Direct replacement exhaust manifold end cap/connector gasket (will fit both ends).

Part LOG STYLE DIRECT REPLACEMENT

-6-1/8"

6-1/8"

Manifold includes all plugs, gaskets and mounting hardware to head. Riser includes plugs, gasket and mounting hardware to mount to manifold.



Part Number

2-9/16

9-1/2"

8-1/2"

MerCruiser V8 Models 330, 340 and 454 Magnum Part Number Inboard and Stern-Drive Units CENTER RISER DIRECT REPLACEMENT Water water



MC 1 89011



MC 20 44354



MC 20 98502



MC 20 93322A3





8-1/2



MC 50 806926





MC47 27 87105

9-1/2"-



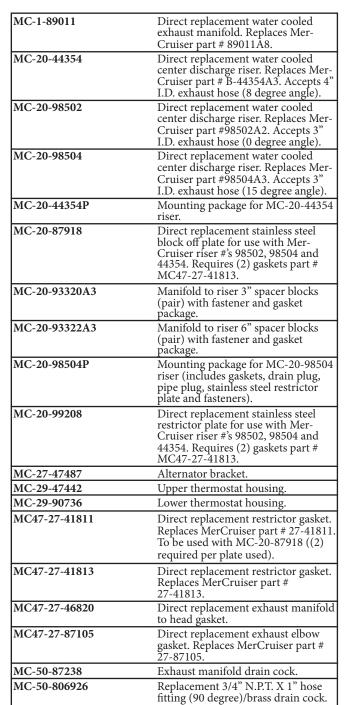




MC 29 90736







Note:

5/8

48

Part Nun

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

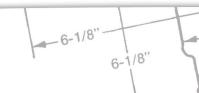


"A"

2-9/

16





ALL MODELS CENTER RISER GENERIC

MerCruiser V8 (Ford)-302 and 351 C.I.D.



FM-1-83	Water cooled center discharge mani-
1 11-1-05	fold to fit the small block Ford engine
	(3/4" N.P.T. cooling hose con-
	nections). All years.
20-0082	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 3"
	I.D. exhaust hose.
20-0100	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 4"
	I.D. exhaust hose.
1-0104P	Adaptor package for fresh water
	cooled manifold (includes gaskets
	and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water
	cooling. Used in pre-heating applica-
	tions (includes gaskets and block off
	plate with vent hole).
1-0107	Center riser manifold-to-riser gasket
	(raw water cooling).
20-0082P	Riser mounting package for both 20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package
	(with brass plugs) for both 20-0082
	and 20-0100. Not pictured.
20-0087P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3 " I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 2 1/2" I.D. exhaust hose.
20-0089P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3 " I.D. exhaust hose.
20-0092P	45 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0093P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3 1/2" or 4" I.D. exhaust
	hose.
20-0097	3" spacer block (complete with
	mounting hardware, gasket and 3/4"
	pipe plug). Capable of stacking.
FM-1-83P	Manifold mounting package (in-
	cludes bolts and pipe plugs).
FM-1-83SS-P	Stainless steel manifold mounting
	package (includes stainless bolts and
	brass plugs). Not pictured.
FM-47-0000	Manifold to cylinder head gasket.
MC-6-0000P	Exhaust manifold plumbing fittings
	package for models 188, 255, 233, 255, 302, 351 and 888.
MC-6-0001P	Exhaust manifold plumbing fittings
	package for model 215.
MC-45 0000	Fuel filter and solenoid universal
	mounting bracket.

2-9/16

- 6-1/8

6-1/8"

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



49

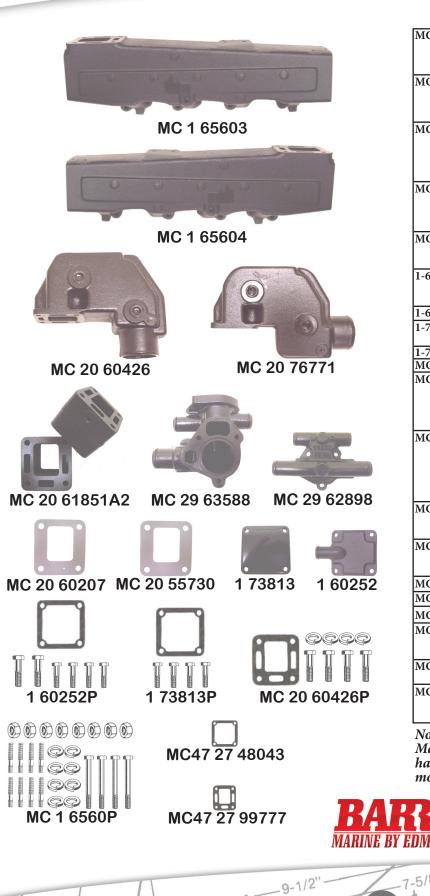
8-1/2"

9-1/2"

Part Number

Part Numbe ²⁰⁻Models 188, 215, 225, 233, 255 and 888 Inboard and I/O Units LOG STYLE DIRECT REPLACEMENT

MerCruiser V8 (Ford)-302 and 351 C.I.D.



8-1/2"

Discharge

"C" -

MC 1 (E(02	Direct conference of the sector of 1		
MC-1-65603	Direct replacement water cooled exhaust manifold (starboard side).		
	Replaces MerCruiser part #		
	B-65603A4 and B-54099A5.		
MC-1-65604	Direct replacement water cooled		
	exhaust manifold (port side). Re-		
	places MerCruiser part # B-65604A4 and B-54100A5.		
MC-20-60426	Direct replacement exhaust elbow		
110-20-00420	riser (utilizes a stainless steel sleeve		
	at the water/air mixing area). Re-		
	places MerCruiser part #B-60426A1		
	(I/O applications).		
MC-20-76351	Direct replacement exhaust elbow		
	riser. Replaces MerCruiser part # B-76351A1(I/O applications). Not		
	pictured.		
MC-20-76771	Direct replacement exhaust elbow		
	riser. Replaces MerCruiser part #		
	B-76771A3 (inboard applications).		
1-60252	Direct replacement exhaust manifold		
	end cap/connector. Replaces Mer-		
1 (0 050 D	Cruiser part # B-60252.		
1-60252P	Front end plate mounting package.		
1-73813	Direct replacement manifold end cap (rear). Supercedes part # 1-54870.		
1 72012D			
1-73813P MC-1-6560P	Rear end cap mounting package. Manifold mounting package.		
MC-20-55730	Stainless steel fresh water cooling		
1110-20-33730	block off plate for use with Mer-		
	Cruiser riser #'s 60426, 76351 and		
	76771. Requires (2) gaskets part #		
10 00 0005	MC47-27-99777.		
MC-20-60207	Stainless steel block off plate (with		
	vent hole) for use with MerCruiser riser #'s 60426, 76351 and 76771. Re-		
	quires (2) gaskets part # MC47-27-		
	99777. Used in pre-heating plumbing		
	systems.		
MC-20-60426P	Exhaust riser elbow mounting		
	package. For use with both MC-20-		
MC 20 (1051 42	60426 and MC-20-76351 risers.		
MC-20-61851A2	Manifold to riser 3" spacers (sold in pairs). Includes all mounting hard-		
	ware, gaskets and drain plugs.		
MC-29-62898	Upper thermostat housing.		
MC-29-63588	Lower thermostat housing.		
MC47-27-54566A1	Manifold gasket set.		
	8		
MC47-27-48043	Direct replacement exhaust manifold end cap/connector gasket (will fit both ends).		
	Direct replacement exhaust manifol		
MC47-27-73866	Direct replacement exhaust manifold		
	Direct replacement exhaust manifold to head gasket.		
MC47-27-73866 MC47-27-99777	Direct replacement exhaust manifold		

Internal

Water charge

Note:

5/8

50

Part Nun

Manifold includes all plugs, gaskets and mounting hardware to head. Riser includes plugs, gasket and mounting hardware to mount to manifold.

"A

2-9/16



-6-1/8"

18'

6-

DIRECT REPLACEMENT



MC 20 12076



MC 20 55538



MC 20 72963



MC 20 76351



8-1/2"

MC 20 44354



MC 20 87918

MC 20 99208

MC 20 60207

MC 20 55730

8-1/2"

MC 20 60426



MC 20 76325



MC 20 76668

MC 20 90880



MC 20 76771



MC 20 98502

Note: Risers include plugs, gasket and mounting hardware to mount to manifold.

MC 20 98504

MC-20-12076	Direct replacement exhaust riser. Re- places MerCruiser part # 12076A2.
MC-20-44354	Direct replacement water cooled center discharge riser. Replaces Mer- Cruiser part # B-44354A3. Accepts 4" I.D. exhaust hose (8 degree angle).
MC-20-55538	Direct replacement exhaust elbow/ riser. Replaces MerCruiser part # B-39920 and # B-55538A2.
MC-20-60426	Direct replacement exhaust elbow riser (utilizes a stainless steel sleeve at the water/air mixing area). Re- places MerCruiser part #B-60426A1.
MC-20-72963	Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-72963A1 (inboard applications).
MC-20-76325	Direct replacement exhaust riser. Re- places MerCruiser part # 76325A2.
MC-20-76351	Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-76351A1.
MC-20-76668	Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-76668A3, B-72964A1 and B-47877A4 (I/O applications).
MC-20-76771	Direct replacement exhaust elbow riser. Replaces MerCruiser part # B-76771A3 (inboard applications).
MC-20-864591	Direct replacement exhaust riser/ elbow. Replaces MerCruiser part # 864591T02. Riser will replace the equivalent part number used on 4.3L Models as well.
MC-20-90880	Direct replacement (cast iron) ex- haust riser/expansion tank. Replaces MerCruiser part # 90880A2.
MC-20-98502	Direct replacement water cooled center discharge riser. Replaces Mer- Cruiser part #98502A2. Accepts 3" I.D. exhaust hose (0 degree angle).
MC-20-98504	Direct replacement water cooled center discharge riser. Replaces Mer- Cruiser part #98504A3. Accepts 3" I.D. exhaust hose (15 degree angle).
MC-20-55730	Stainless steel fresh water cooling block off plate for use with Mer- Cruiser riser #'s 60426, 76351 and 76771. Requires (2) gaskets part # MC47-27-99777.
MC-20-60207	Stainless steel block off plate (with vent hole) for use with MerCruiser riser #'s 60426, 76351 and 76771. Re- quires (2) gaskets part # MC47-27- 99777. Used in pre-heating plumbing systems.
MC-20-87918	Direct replacement stainless steel block off plate for use with Mer- Cruiser riser #'s 98502, 98504 and 44354.
MC-20-99208	Direct replacement stainless steel restrictor plate for use with Mer- Cruiser riser #'s 98502, 98504 and 44354.

2-9/16

2-9/16"



9-1/2"

Part Number



DIRECT REPLACEMENT

MC-20-61811A4

MerCruiser 3" and 6" Riser Kits



Discharge

Part Number 20-0000

"Ċ

MC 20 61811A4



MC 20 61851A2

	pairs). Includes all mounting hard- ware, gaskets and drain plugs.
MC-20-61851A2	Manifold to riser 3" spacers (sold in pairs). Includes all mounting hard-ware, gaskets and drain plugs.
MC-20-61851A3	Manifold to riser 3" spacer (single block). Includes all mounting hard- ware, gaskets and drain plug.
MC-20-93320A3	Manifold to riser 3" spacer blocks (pair) with fastener and gasket package.
MC-20-93322A3	Manifold to riser 6" spacer blocks (pair) with fastener and gasket package.
MC-20-61811A4P	Mounting package for MC-20-61811A4 spacer block kit.
MC-20-61852A2P	Mounting package for MC-20-61851A2 spacer block kit.
MC-20-61811A3P	Mounting package for MC-20-61811A3 spacer block kit.
MC-20-93320A3P	Mounting package for MC-20-93320A3 spacer block kit.
MC-20-93322A3P	Mounting package for MC-20-93322A3 spacer block kit.

Internal Water

6-

Manifold to riser 3" spacers (sold in

charge

Note:

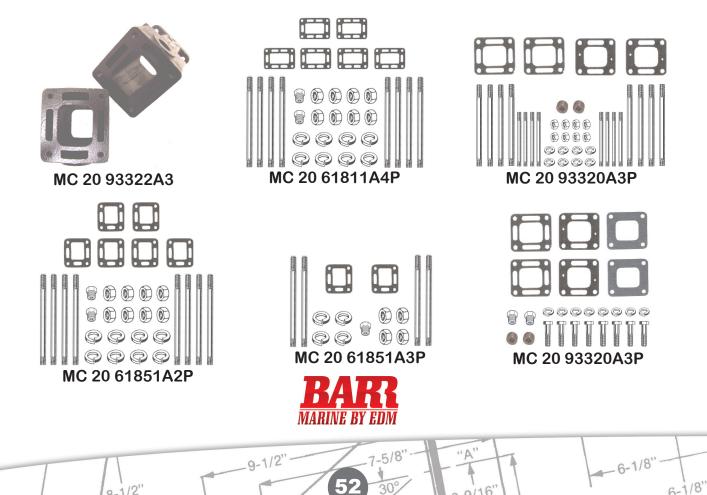
Each spacer block kit includes the spacer block (s) and the corresponding package to mount.



MC 20 61851A3

8-1/2"





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Part NUT

2-9/16

MerCruiser Thermostat Housing Assemblies 6-1/8

Part Number

Part#

MC-29-60372 MC47-27-47590 MC-29-47587 MC47-27-33680 MC-29-59078 MC-29-47441 MC47-27-48818 MC-29-78984 MC47-27-53045 MC-29-59137 MC-29-59498 MC-29-62898 MC47-27-60208 MC-29-60783 MC-29-63588 MC47-27-54506 MC-29-59137 MC-29-47441 MC47-27-41812 MC-29-87290 MC47-27-53045 MC-29-59137 MC-29-97429 MC47-27-90556 MC-29-87290 MC47-27-53045 MC-29-59137 MC-29-47442 MC47-27-48818 MC-29-78985 MC-29-79468 MC47-27-53045 MC-29-59137 MC-29-47442 MC-29-97428 MC47-27-90556 MC-29-90736 MC47-27-53405 MC-29-59137 MC-29-47442 MC47-27-48818 MC-29-47479 MC-29-49966 MC-29-52852 MC-29-78985 MC47-27-53045 MC-29-59137

Detailed Description

8-1/2"

Upper Thermostat Housing - Models 120, 140, 120R/140R, 160, 165 and 200 Upper Thermostat Housing Gasket - Models 120, 140, 120R/140R, 160, 165 and 200 Lower Thermostat Housing - Models 120, 140, 120R/140R, 160, 165 and 200 Lower Thermostat Housing Gasket - Models 120, 140, 120R/140R, 160, 165 and 200 Thermostat - Models 120, 140, 120R/140R, 160, 165 and 200 Upper Thermostat Housing - Models 225 (GM), 260, 228, 898/198 Upper Thermostat Housing Gasket - Models 225 (GM), 260, 228, 898/198 Lower Thermostat Housing Gasket - Models 225 (GM), 260, 228, 898/198 Lower Thermostat Housing Gasket - Models 225 (GM), 260, 228, 898/198 Thermostat - Models 225 (GM), 260, 228, 898/198 Upper Thermostat Housing - Models 888, 225 (Ford), 233 (Ford) and 255 (Ford) Upper Thermostat Housing - Models 888, 225 (Ford), 233 (Ford) and 255 (Ford) Upper Thermostat Housing Gasket - Models 888, 225 (Ford), 233 (Ford) and 255 (Ford) Lower Thermostat Housing - Models 888, 225 (Ford), 233 (Ford) and 255 (Ford) Lower Thermostat Housing - Models 888, 225 (Ford), 233 (Ford) and 255 (Ford) Lower Thermostat Housing Gasket - Models 888, 225 (Ford), 233 (Ford) and 255 (Ford) Thermostat - Models 888, 225 (Ford), 233 (Ford) and 255 (Ford) Upper Thermostat Housing - Models 185R and 898R/228R/260R Upper Thermostat Housing Gasket - Models 185R and 898R/228R/260R Lower Thermostat Housing - Models 185R and 898R/228R/260R Lower Thermostat Housing Gasket - Models 185R and 898R/228R/260R Thermostat - Models 185R and 898R/228R/260R Upper Thermostat Housing - Models 230 (Inboard) and 260 (Inboard) Upper Thermostat Housing Gasket - Models 230 (Inboard) and 260 (Inboard) Lower Thermostat Housing - Models 230 (Inboard) and 260 (Inboard) Lower Thermostat Housing Gasket - Models 230 (Inboard) and 260 (Inboard) Thermostat - Models 230 (Inboard) and 260 (Inboard) Upper Thermostat Housing - Models 330 (GM) Upper Thermostat Housing Gasket - Models 330 (GM) Lower Thermostat Housing - Models 330 (GM) Lower Thermostat Housing - Models 330 (GM) Lower Thermostat Housing Gasket - Models 330 (GM) Thermostat - Models 330 (GM) Upper Thermostat Housing - Models 330 (Inboard) and 340 (Inboard) Upper Thermostat Housing - Models 330 (Inboard) and 340 (Inboard) Upper Thermostat Housing Gasket- Models 330 (Inboard) and 340 (Inboard) Lower Thermostat Housing - Models 330 (Inboard) and 340 (Inboard) Lower Thermostat Housing Gasket- Models 330 (Inboard) and 340 (Inboard) Lower Thermostat - Models 330 (Inboard) and 340 (Inboard) Upper Thermostat Housing - Models 325, 350 Upper Thermostat Housing Gasket - Models 325, 350 Lower Thermostat Housing Gasket - Models 325, 350 Thermostat - Models 325, 350



2-9/16

18









MC 29 63588







2-9/16



8-1/2'

9-1/2

Part Number

	Discharge	"C" —			"A"	T	
		MerCr	uiser T	hermost	at Kits	1 -2"-1	1
1	Part Number 20-0000		- In	-		Internal	1
	20-000-			2	5	Water	2
1					A .		!
		\mathbf{h}					ļ
		Y Y		The second s			ļ
	MC47 47	5KIT	MC47 488	KIT	MC47 6	502KIT	
	Conten MC47-27-47590	nts: Gasket	Conte MC47-27-48818		Conte MC47-27-60208		ľ
	MC-29-59078	Thermostat	MC-29-59137	Thermostat	MC-29-59137	Thermostat	1
	Part #	Detailed Description	·	· · · · · · · · · · · · · · · · · · ·	P 1. CINI 227724 N		ļ
	MC47-475KIT	MC47-27-47590 Gasket	and MC-29-59078	ginning 5/1N 2524547	- Ending 5/1N 55/754. IN	Note MC47 475 Kit Contents:	!
	MC47-475KIT	Thermostat Kit 4/5 - En MC47-27-47590 Gasket	and MC-29-59078	ginning S/N 33/7341 3 Thermostat	- Ending S/N Up. Note I	MC47 475 Kit Contents:	1
	MC47-475KIT	Thermostat Kit 4/5 - En MC47-27-47590 Gasket	gine model 140 Be and MC-29-59078	ginning S/N 2508261 3 Thermostat	- Ending S/N Up. Note J	MC47 475 Kit Contents:	1
	MC47-475KIT	Thermostat Kit 4/5 - En MC47-27-47590 Gasket	gine model 165 Be and MC-29-59078	ginning S/N 3377341 3 Thermostat	- Ending S/N Up. Note J	MC47 475 Kit Contents:	ļ
	MC47-488KIT	MC47-27-48818 Gasket	t and MC-29-59137	7 Thermostat		Note MC47 488 Kit Contents:	ļ
	MC47-602KIT					MC47 602 Kit Contents:	ļ
	MC47-488KIT	Thermostat Kit 488 - En MC47-27-48818 Gasket	gine model 225 Be and MC-29-59137	ginning S/N 2278647 Thermostat	- Ending S/N 2694014. I	Note MC47 488 Kit Contents:	ļ
	MC47-602KIT	Thermostat Kit 602 - En MC47-27-60208 Gasket	gine model 225 Be and MC-29-59137	ginning S/N 3385721 Thermostat	- Ending S/N Up. Note I	MC47 602 Kit Contents:	ļ
	MC47-488KIT					Note MC47 488 Kit Contents:	ļ
	MC47-488KIT	Thermostat Kit 488 - En MC47-27-48818 Gasket	gine model 230 Be and MC-29-59137	ginning S/N 6040716 7 Thermostat	- Ending S/N Up. Note 1	MC47 488 Kit Contents:	ļ
	MC47-602KIT	Thermostat Kit 602 - En MC47-27-60208 Gasket	gine model 233 Be and MC-29-59137	ginning S/N 4173000 7 Thermostat	- Ending S/N Up. Note 1	MC47 602 Kit Contents:	
	MC47-488KIT					Note MC47 488 Kit Contents:	ļ
	MC47-488KIT					Note MC47 488 Kit Contents:	I
	MC47-602KIT	Thermostat Kit 602 - En MC47-27-60208 Gasket	ngine model 255 Be and MC-29-59137	eginning S/N 3258728 7 Thermostat	- Ending S/N Up. Note I	MC47 602 Kit Contents:	I
	MC47-488KIT	Thermostat Kit 488 - En MC47-27-48818 Gasket	gine model 255 Be and MC-29-59137	ginning S/N 4175500 7 Thermostat	- Ending S/N Up. Note ?	MC47 488 Kit Contents:	
	MC47-488KIT	Thermostat Kit 488 - En MC47-27-48818 Gasket	ngine model 260 Be and MC-29-59137	eginning S/N 5907058 7 Thermostat		MC47 488 Kit Contents:	
	MC47-488KIT	Thermostat Kit 488 - En MC47-27-48818 Gasket	gine model 270 Be and MC-29-59137	ginning S/N 2851074 7 Thermostat	- Ending S/N 3077735. 1	Note MC47 488 Kit Contents:	
	MC47-488KIT	Thermostat Kit 488 - En MC47-27-48818 Gasket	ngine model 280 Be and MC-29-59137	eginning S/N 4176250 7 Thermostat		MC47 488 Kit Contents:	
	MC47-488KIT	Thermostat Kit 488 - En MC47-27-48818 Gasket	gine model 325 Be and MC-29-59137	ginning S/N 2288747 7 Thermostat	- Ending S/N Up. Note ?	MC47 488 Kit Contents:	
	MC47-488KIT		ngine model 330 Be	eginning S/N 4623115		MC47 488 Kit Contents:	
	MC47-488KIT		ngine model 340 Be	eginning S/N 5889914	- Ending S/N Up. Note ?	MC47 488 Kit Contents:	
	MC47-488KIT		ngine model 350 Be	eginning S/N 3780450	- Ending S/N Up. Note I	MC47 488 Kit Contents:	
	MC47-488KIT		ngine model 370 Be	eginning S/N 4179554	- Ending S/N Up. Note I	MC47 488 Kit Contents:	
	MC47-488KIT		ngine model 390 Be	eginning S/N 2781129	- Ending S/N 2825059. 1	Note MC47 488 Kit Contents:	
	MC47-602KIT		ngine model 888 Be	eginning S/N 3108723	- Ending S/N Up. Note I	MC47 602 Kit Contents:	
	MC47-488KIT				- Ending S/N 6218461. !	Note MC47 488 Kit Contents:	



54 Part Number

-9-1/2"-

8-1/2"

7-5/8"

30

"A"

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2-9/16"

e

6-1/8"-

6-1/8"

Model 120 Engine



OMC 1 981462



OMC 1 982657



OMC 20 980536



OMC 20 909368



OMC 20 910380



OMC 20 907765



1-907885



1-910280

Direct replacement water cooled exhaust manifold. Replaces OMC part #'s 979729 and 980459.
Direct replacement water cooled exhaust manifold. Manifold has the heat source in the exhaust port for automatic choke.
Direct replacement high rise to ad- aptor elbow for use with OMC-20- 980536.
Direct repalcement exhaust elbow. Replaces OMC riser part #'s 980188 and 910380.
Direct replacement exhaust riser. Replaces OMC riser part #'s 979730 and 980536.
Heat exchanger assembly.
Direct replacement rear end cap. Replaces OMC part # 907885.
Direct replacement front end cap. Replaces OMC part # 910280 and 311550 (choke).
Direct replacement front end cap. Replaces OMC part # 910384.
Manifold mounting package.
Direct replacement exhaust elbow to hose adaptor.
Exhaust manifold to riser adaptor for use with OMC riser part #'s 980188 and 910380.
Exhaust riser mounting package.
Exhaust manifold to cylinder head gasket.
Exhaust manifold to elbow and end cap gasket.
Manifold end cap gasket.
Exhaust elbow to hose adaptor gas-
ket.

Note:

OMC47 311121

OMC 4-Cylinder 153 C.I.D. 120 H.P. 2.5 Liter

LOG STYLE DIRECT REPLACEMENT

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

















2-9/16

9-1/2 Part Numbe

8-1/2"

6-1/8 6-1/8"





OMC 1 984054





OMC-1-984054	Direct replacement exhaust manifold. Replaces OMC part #'s 998083, 980460, 980957 and 982490.
OMC-20-910380	Direct repalcement exhaust elbow. Replaces OMC riser part #'s 980188 and 910380.
1-910384	Direct replacement front end cap. Replaces OMC part # 910384.
OMC-1-984054P	Exhaust manifold mounting package.
OMC-20-910380P	Exhaust riser mounting package.
OMC47-311121	Exhaust manifold to elbow and end cap gasket.
OMC47-908013	Adaptor plate (OMC-20-908014) to riser (OMC-20-910380) gasket.
OMC47-908079	Exhaust manifold to cylinder head gasket.

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.















OMC V6-155 H.P. All Years" 8-1/2" LOG STYLE GENERIC 2-9/16" 4"

Port side part # BV6 1 75L.



Water cooled end discharge port manifold to fit the Buick V6 engine (1/2" N.P.T. cooling connections). All years.
Water cooled end discharge starboard manifold to fit the Buick V6 engine (1/2" N.P.T. cooling connections). All years.
Swivel-type 90 degree exhaust elbow connector with internal water dis- charge. Accepts 2 1/2" to 3" I.D. ex- haust hose. Requires (1) mounting hardware kit #20-0002P per elbow.
Front end plate with choke stove heat exchanger (starboard side only).
Plumbing fittings package (3/4" I.D. hose only).
Upper thermostat housing. Replaces either OMC # 314810 or # 982201 (may also order under part #'s OMC- 29-314810 or OMC-29-982201).
160 degree thermostat.



OMC 1 0092



OMC 29 0000



OMC47 314809





UNIC 29 383307



8-1/2"



9-1/2"

Part Number

2-9/16"

OMC V6-4.3L Cobra



Discharge

CENTER RISER DIRECT REPLACEMENT



OMC 1 3857656

OMC-1-3857656	Direct replacement exhaust manifold. Replaces Volvo part # 3857656.
OMC-20-913784	Direct replacement exhaust riser/ elbow. Replaces OMC # 913784 and Volvo part # 3863061 (New Style).
OMC-20-913784P	Exhaust riser/elbow mounting pack- age.
MC47-27 99757	Exhaust manifold to cylinder head gasket.
OMC47-913783	Direct replacement exhaust riser/ elbow to manifold gasket.
50-512-017	Replacement 1/2" N.P.T. to 1" hose (straight)/brass hose fitting.

"A"

2

Internal

incharge

Water

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



OMC 20 913784





OMC47 913783







OMC V8-283, 305, 307, and 350 C.I.D. Models 210, 215, 225, 235 and 245 H.P. LOG STYLE GENERIC

Port side part # OF 1 60L.



OF-1-60L	Water cooled end discharge port manifold to fit the Small Block GM engine (1/2" N.P.T. cooling hose connections).
OF-1-60R	Water cooled end discharge starboard manifold to fit the Small Block GM engine (1/2" N.P.T. cooling hose connections).
20-0031	Swivel-type 90 degree exhaust elbow connector with internal water dis- charge. Accepts 2 1/2" to 3" I.D. ex- haust hose. Requires (1) mounting hardware kit #20-0002P per elbow.
20-0055	Swivel-type 30 degree exhaust elbow connector; fully jacketed. Accepts 2 1/2" or 3" I.D. exhaust hose. Re- quires (1) mounting hardware kit #20-0002P per elbow.
20-0002P	Mounting hardware kit.
OF-1-60F-P	Manifold to cylinder head mounting package.
OMC-6-0000P	Plumbing fittings package (3/4" I.D. hose only).
OMC-29-0000	Upper thermostat housing. Replaces either OMC # 314810 or # 982201 (may also order under part #'s OMC- 29-314810 or OMC-29-982201).
OMC-29-383307	160 degree thermostat.
OMC47-314809	Thermostat housing gasket.
OMC47-909314	Exhaust manifold to cylinder head gasket.
OMC47-909515	Adaptor housing gasket.



9-1/2"

Part Number



6-1/8

/8" 6-1

OMC47 909515

2-9/16"



79

8-1/2"

OMC V8-283, 305, 307 and 350 C.I.D.

Part Number ²⁰ Models 225 and 245 H.P.

Discharge



8-1/2"

OMC-1-979760	Direct replacement exhaust manifold (port side). Replaces OMC part # 979760.
OMC-1-979761	Direct replacement exhaust manifold (starboard side). Replaces OMC part #979761.
OMC-20-981281	Direct replacement exhaust elbow. Replaces OMC part #'s 907776 and # 907777.
1-31214P	Exhaust manifold end cap/connector mounting package.
1-312148	Direct replacement exhaust manifold front end cap/connector (port side).
1-312149	Direct replacement exhaust manifold front end cap/connector(starboard side). End cap has extra hole drilled for choke stove.
1-380985	Choke stove heat exchanger (star- board side only). Uses 1-312149 end cap.
OMC-1-9797P	End cap and exhaust elbow stud package.
OMC-1-97975P	Exhaust manifold mounting package.
OMC-20-981281P	Exhaust elbow mounting package.
OMC-29-383307	160 degree thermostat.
OMC-29-0000	Upper thermostat housing. Replaces either OMC # 314810 or # 982201 (may also order under part #'s OMC- 29-314810 or OMC-29-982201).
OMC47-311130	Direct replacement exhaust manifold end cap/connector gasket (not to be used between elbow and manifold).
OMC47-314809	Thermostat housing gasket.
OMC47-907775	Direct replacement exhaust elbow gasket.
OMC47-909314	Manifold to cylinder head gasket.
Note:	· · · · · · · · · · · · · · · · · · ·

LOG STYLE DIRECT REPLACEMENT

Note:

020201

101 (01 (01

5/8

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.





Internal

Water incharge



"A

2-9/16



-6-1/8"

/8"

6-



60

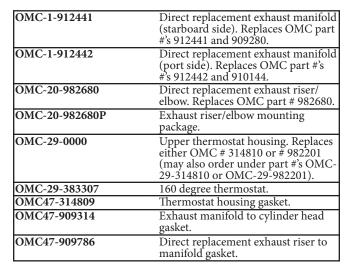
Part NUT

.9-1/2"-

Models 185, 200, 225, 230, and 260 H.P. LOG STYLE DIRECT REPLACEMENT

OMC V8-283, 305, 307, and 350 C.I.D.





-6-1/8"

6-1/8

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.











2-9/16



61

8-1/2"

9-1/2"

Part Number

	Discharge "C	102 202	205 20		
P 2	Part Number 20-0000	-283, 302, All MODELS (Internal Water
	4	4.		CHV-1-83	Water cooled center discharge mani- fold to fit the small block GM engine (3/4° N.P.T. cooling hose con- nections). All years.
l	. 0	0		20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose.
	CHV	1 83		20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
				1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets and block off plate).
	an and Constant of the	6		1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
and Sharm Provide				1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off plate with vent hole).
	20 0100	20 0082		1-0107	Center riser manifold-to-riser gasket (raw water cooling).
			(pt) (pt)	20-0082P	Riser mounting package for both 20-0082 and 20-0100.
00.0007			20 0086P	20-0082SS-P	Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.
20 0097	20 0084P	20 0085P	20 0000P	20-0084P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 3 1/2" I.D. exhaust hose.
				20-0085P	Straight exhaust adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
20 0087P	20 0088P	20 0092P	20 0093P	20-0086P	90 degree exhaust elbow adaptor for I/O applications (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
66 6 6				20-0087P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20 0089P	MC 6 0001P	OMC 20 0003	20 0082P	20-0088P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 2 1/2" I.D. exhaust hose.
17 17 17 17 17 1				20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
				20-0092P	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
CHV 1	83P 1 01	04P 10	0106P	20-0093P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.
	•••••]	20-0097	3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
СН	V 47 0000	1 0105 1 07	107	CHV-1-83P	Manifold mounting package (in- cludes bolts and pipe plugs).
Note:				CHV-1-83SS-P	Stainless steel manifold mounting package (includes stainless bolts and brass plugs). Not pictured.
Manifol	d includes all plugs, g re to head. Risers incl	askets and mounting	g d	CHV-47-0000 MC-6-0001P	Manifold to cylinder head gasket. Exhaust manifold plumbing fittings
mountin	re to nead. Risers incl ig hardware to moun	t to manifold.	и	OMC-20-0003	package for model 215. Hose bushing 3" to 3 1/2" (where
		1			applicable).

Note:

8-1/2"



62

Part NUT

.5/8

-9-1/2"-

"A"

2-9/16

6-1/8"

6-1/8"

0-1/2" **All Models**



OMC V8-5.7L Cobra



OMC 1 914035



OMC 20 913784



OMC-1-914035	Direct replacement exhaust manifold. Replaces OMC part # 914035 and Volvo part # 3857723 (New Style).
OMC-20-913784	Direct replacement exhaust riser/ elbow. Replaces OMC # 913784 and Volvo part # 3863061 (New Style).
OMC-1-914035P	Exhaust manifold mounting package
OMC-20-913784P	Exhaust riser/elbow mounting pack- age.
OMC47-909314	Exhaust manifold to cylinder head gasket.
OMC47-913783	Direct replacement exhaust riser/ elbow to manifold gasket.
50-512-017	Replacement 1/2" N.P.T. to 1" hose (straight)/brass hose fitting.

-6-1/8"

6-1/8"

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.







OMC47 909314



9-1/2"

Part Number

2-9/16



63

8-1/2"

Part Number 20-0 Models 170, 175, 190, and 235 H.P.



Discharge

OMC 1 980959



OMC-1-980959 Direct replacement exhaust manifold. Replaces OMC part # 980572 and # 980959. Direct replacement exhaust elbow. Replaces OMC part # 980617. OMC-20-980617 1-908719 Direct replacement exhaust manifold end cap/connector (front). Replaces OMC part # 908719. OMC-1-980959P Manifold to cylinder head mounting package. Exhaust elbow mounting package. OMC-20-980617P OMC47-908717 Exhaust manifold to cylinder head gasket. OMC47-908935 Direct replacement exhaust manifold end cap/connector gasket.

DIRECT REPLACEMENT

Internal

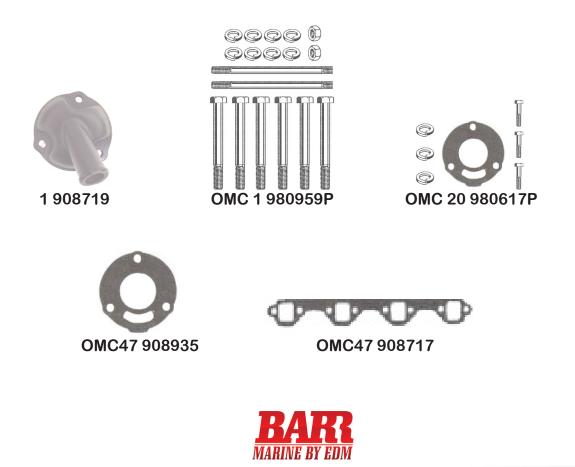
charge

Water

Note:

OMC (Ford) V8-302 and 351 C.I.D.

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



9-1/2" 8-1/2" "C" Part Number "C" Part Number "A" -6-1/8" -6-1/8" ALL MODELS CENTER RISER GENERIC

OMC (Ford) V8-302 and 351 C.I.D.



hardware to head. Risers include plugs, gasket and

mounting hardware to mount to manifold.

fold to fit the small block Ford engi (3/4" N.P.T. cooling hose con- nections). All years. 20-0082 Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose. 20-0100 Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose. 1-0104P Adaptor package for fresh water cooled manifold (includes gaskets and block off plate). 1-0105 Center riser manifold-to-riser gask for fresh water cooling. 1-0106P Adaptor package for raw water cooling. Used in pre-heating applic tions (includes gaskets and block off plate with vent hole). 1-0107 Center riser manifold-to-riser gask (raw water cooling). 20-0082P Riser mounting package for both 20-0082 and 20-0100. 20-0082P Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured. 20-0087P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0088P 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0092P 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3 I.D. exhaust hose. 20-0088P 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3 I.D. exhaust hose. 20-0092P 45 degree exhaust elbow adaptor (includes adapto		
20-0082 Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3" I.D. exhaust hose. 20-0100 Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose. 1-0104P Adaptor package for fresh water cooled manifold (includes gaskets and block off plate). 1-0105 Center riser manifold-to-riser gask for fresh water cooling. 1-0106P Adaptor package for raw water cooling. Used in pre-heating applic tions (includes gaskets and block of plate with vent hole). 1-0107 Center riser manifold-to-riser gask (raw water cooling). 20-0082P Riser mounting package for both 20-0082 and 20-0100. 20-0082P Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured. 20-0087P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0088P 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0092P 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0093P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0092P 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0093P 90 degree ex	FM-1-83	
 (3/4" N.P.T. cooling hose connection). Standard for use with 4" I.D. exhaust hose. 1-0104P Adaptor package for fresh water cooled manifold (includes gaskets and block off plate). 1-0105 Center riser manifold-to-riser gask for fresh water cooling. 1-0106P Adaptor package for raw water cooling. Used in pre-heating applic tions (includes gaskets and block of plate with vent hole). 1-0107 Center riser manifold-to-riser gask (raw water cooling.). 20-0082P Riser mounting package for both 20-0082 and 20-0100. 20-0082SS-P Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured. 20-0087P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0088P 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0089P 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0092P 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0093P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0097 3" spacer block (complete with mounting package (includes stales) bolts and pipe plug). Capable of stacking. FM-1-83S-P Stainless steel manifold mounting package (includes stales) bolts and brass plugs). Not pictured. FM-47-0000 Manifold mounting package (includes stales) bolts and brass plugs). Not pictured. FM-47-0000 Manifold to cylinder head gasket. MC-6-0000P Exhaust manifold plumbing fittings package (3/4" hose only). <	20-0082	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 3"
Cooled manifold (includes gaskets and block off plate).1-0105Center riser manifold-to-riser gask for fresh water cooling.1-0106PAdaptor package for raw water cooling. Used in pre-heating applic tions (includes gaskets and block of plate with vent hole).1-0107Center riser manifold-to-riser gask (raw water cooling).20-0082PRiser mounting package for both 20-0082 and 20-0100.20-0082SS-PStainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.20-0087P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0088P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0089P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0092P45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-00973" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking.FM-1-83S-PStainless steel manifold mounting package (includes bolts and pipe plugs).FM-1-83SS-PStainless steel manifold mounting package (1" I.D. hose only).OMC-6-0000PExhaust manifold plumbing fittings package (3/4" hose only).OMC-20-0000PHook up package, may be required for connection to stern drive units (exhaust hose and clamps not in-	20-0100	nection). Standard for use with 4"
for fresh water cooling.1-0106PAdaptor package for raw water cooling. Used in pre-heating applic tions (includes gaskets and block of plate with vent hole).1-0107Center riser manifold-to-riser gask (raw water cooling).20-0082PRiser mounting package for both 20-0082 and 20-0100.20-0082SS-PStainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.20-0087P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0088P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 2 1/2" I.D. exhaust hose.20-0089P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0092P45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-00973" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking.FM-1-83SS-PStainless steel manifold mounting package (includes bolts and pipe plugs).FM-1-83SS-PStainless steel manifold plumbing fittings package (1" I.D. hose only).OMC-6-0000PExhaust manifold plumbing fittings package (3/4" hose only).OMC-20-0000PHook up package, may be required for connection to stern drive units (exhaust hose only).	1-0104P	cooled manifold (includes gaskets
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1-0107Center riser manifold-to-riser gask (raw water cooling).20-0082PRiser mounting package for both 20-0082 and 20-0100.20-0082SS-PStainless steel mounting package (with brass plugs) for both 20-0082 	1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off
20-0082 and 20-0100.20-0082SS-PStainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100. Not pictured.20-0087P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0088P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 2 1/2" I.D. exhaust hose.20-0089P30 degree exhaust elbow adaptor 	1-0107	Center riser manifold-to-riser gasket
 (with brass plugs) for both 20-0082 and 20-0100. Not pictured. 20-0087P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0088P 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 2 1/2" I.D. exhaust hose. 20-0089P 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0092P 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0093P 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose. 20-0097 3" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking. FM-1-83P Manifold mounting package (in- cludes bolts and pipe plugs). FM-1-83SS-P Stainless steel manifold mounting package (includes stainless bolts an brass plugs). Not pictured. FM-47-0000 Manifold to cylinder head gasket. MC-6-0001P Exhaust manifold plumbing fittings package (3/4" hose only). OMC-20-0000P Hook up package; may be required for connection to stern drive units (exhaust hose and clamps not in- 	20-0082P	20-0082 and 20-0100.
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20-0088P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 2 1/2" I.D. exhaust hose20-0089P30 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0092P45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3 1/2" or 4" I.D. exhaust hose.20-00973" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking.FM-1-83PManifold mounting package (in- cludes bolts and pipe plugs).FM-1-83SS-PStainless steel manifold mounting package (includes stainless bolts an brass plugs). Not pictured.FM-47-0000Manifold to cylinder head gasket.MC-6-0001PExhaust manifold plumbing fittings package (3/4" hose only).OMC-20-0000PHook up package; may be required for connection to stern drive units (exhaust hose and clamps not in-	20-0087P	(includes adaptor, hose and clamps).
(includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0092P45 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3 1/2" or 4" I.D. exhaust hose.20-00973" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking.FM-1-83PManifold mounting package (in- cludes bolts and pipe plugs).FM-1-83SS-PStainless steel manifold mounting package (includes stainless bolts an brass plugs). Not pictured.FM-47-0000Manifold to cylinder head gasket.MC-6-0001PExhaust manifold plumbing fittings package (3/4" hose only).OMC-20-0000PHook up package; may be required for connection to stern drive units (exhaust hose and clamps not in-	20-0088P	
(includes adaptor, hose and clamps For use with 3" I.D. exhaust hose.20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3 1/2" or 4" I.D. exhaus hose.20-00973" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking.FM-1-83PManifold mounting package (in- cludes bolts and pipe plugs).FM-1-83SS-PStainless steel manifold mounting package (includes stainless bolts an brass plugs). Not pictured.FM-47-0000Manifold to cylinder head gasket.MC-6-0001PExhaust manifold plumbing fittings 	20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0093P90 degree exhaust elbow adaptor (includes adaptor, hose and clamps For use with 3 1/2" or 4" I.D. exhau hose.20-00973" spacer block (complete with mounting hardware, gasket and 3/4 pipe plug). Capable of stacking.FM-1-83PManifold mounting package (in- cludes bolts and pipe plugs).FM-1-83SS-PStainless steel manifold mounting 	20-0092P	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
mounting hardware, gasket and 3/4 pipe plug). Capable of stacking.FM-1-83PManifold mounting package (in- cludes bolts and pipe plugs).FM-1-83SS-PStainless steel manifold mounting package (includes stainless bolts an brass plugs). Not pictured.FM-47-0000Manifold to cylinder head gasket.MC-6-0001PExhaust manifold plumbing fittings package (1" I.D. hose only).OMC-6-0000PExhaust manifold plumbing fittings package (3/4" hose only).OMC-20-0000PHook up package; may be required 	20-0093P	90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust
cludes bolts and pipe plugs).FM-1-83SS-PStainless steel manifold mounting package (includes stainless bolts an brass plugs). Not pictured.FM-47-0000Manifold to cylinder head gasket.MC-6-0001PExhaust manifold plumbing fittings package (1" I.D. hose only).OMC-6-0000PExhaust manifold plumbing fittings package (3/4" hose only).OMC-20-0000PHook up package; may be required for connection to stern drive units (exhaust hose and clamps not in-	20-0097	mounting hardware, gasket and 3/4"
FM-1-83SS-PStainless steel manifold mounting package (includes stainless bolts an brass plugs). Not pictured.FM-47-0000Manifold to cylinder head gasket.MC-6-0001PExhaust manifold plumbing fittings package (1" I.D. hose only).OMC-6-0000PExhaust manifold plumbing fittings package (3/4" hose only).OMC-20-0000PHook up package; may be required for connection to stern drive units (exhaust hose and clamps not in-	FM-1-83P	
MC-6-0001P Exhaust manifold plumbing fittings package (1" I.D. hose only). OMC-6-0000P Exhaust manifold plumbing fittings package (3/4" hose only). OMC-20-0000P Hook up package; may be required for connection to stern drive units (exhaust hose and clamps not in-	FM-1-83SS-P	package (includes stainless bolts and
package (1" I.D. hose only). OMC-6-0000P Exhaust manifold plumbing fittings package (3/4" hose only). OMC-20-0000P Hook up package; may be required for connection to stern drive units (exhaust hose and clamps not in-	FM-47-0000	
OMC-6-0000PExhaust manifold plumbing fittings package (3/4" hose only).OMC-20-0000PHook up package; may be required for connection to stern drive units (exhaust hose and clamps not in-	MC-6-0001P	Exhaust manifold plumbing fittings package (1" I.D. hose only).
for connection to stern drive units (exhaust hose and clamps not in-	OMC-6-0000P	Exhaust manifold plumbing fittings
	OMC-20-0000P	Hook up package; may be required for connection to stern drive units (exhaust hose and clamps not in-
OMC-20-0003 Hose bushing 3" to 3 1/2" (where applicable).	OMC-20-0003	

2-9/16

-6-1/8

18'

6-1



65

8-1/2"

9-1/2"

Part Number

OMC V8-5.0L and 5.8L Cobra

Part Number 2 All Models Carbureted

Discharge

OMC 1 3852347

OMC-1-3852347	Direct replacement exhaust manifold. Replaces Volvo part # 3852347.
OMC-20-913784	Direct replacement exhaust riser/ elbow. Replaces OMC # 913784 and Volvo part # 3863061 (New Style).
OMC-20-913784P	Exhaust riser/elbow mounting pack- age.
FM 47 0000	Exhaust manifold to cylinder head gasket.
OMC47-913783	Direct replacement exhaust riser/ elbow to manifold gasket.
50-512-017	Replacement 1/2" N.P.T. to 1" hose (straight)/brass hose fitting.

CENTER RISER DIRECT REPLACEMENT

Internal

charge

Water

Note:

Manifold includes all plugs, gaskets, hose fitting and mounting hardware to head. Risers include plugs, gasket and mouniting hardware to mount to manifold.



OMC 20 913784

 $\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$

OMC 20 913784P

 \bigcirc







Warning: Barr Riser Shown Only Fits Carbureted Ford Engines! Will Not Directly Replace Volvo Part #'s 3855271 (port) Or 3855269 (stbd) Risers for EFI Models





Model T6.354M

PERKINS 160 H.P. 354 C.I.D.



8-1/2"

PE 1 6354	ŀ
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PE-1-6354	Water cooled exhaust manifold (in-
	cludes mounting hardware to head).
	Replaces Perkins part number 89058.
PE-1-6354B	Cover plate. Replaces Perkins part #
	35732861.
PE-1-6354P	Manifold mounting kit.

2-9/16

-6-1/8"

6-1/8"

Note:

The manifold will fit vertical or inclined models and will accept all of the original end plates, fittings, gaskets and hardware. It will not fit engines equipped with a combined exhaust manifold heat exchanger, nor is it applicable to naturally aspirated models.







67

8-1/2"

9-1/2"

Part Number

2-9/16"

PCM V8-302 and 351 C.I.D. All Years **CENTER RISER GENERIC**







20 0082

20 0085P

20 0088P

20 0102

20 0084P

20 0087P



20 0097



20 0086P









1 0 1 0 7



Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

8-1/2"

1 0105



68

Part NUT

.5/8

"A"

2-9/16

10106P

.9-1/2"-

FM 1 02	
FM-1-83	Water cooled center discharge mani- fold to fit the small block Ford engine (3/4" N.P.T. cooling hose con-
	nections). All years.
20-0082	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 3"
20-0100	I.D. exhaust hose.
20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con-
	nection). Standard for use with 4"
	I.D. exhaust hose.
20-0102	Water cooled center discharge riser
20 0102	(3/4" N.P.T. cooling hose con-
	nection).
1-0104P	Adaptor package for fresh water
1 01011	cooled manifold (includes gaskets
	and block off plate).
1-0105	Center riser manifold-to-riser gasket
	for fresh water cooling.
1-0106P	Adaptor package for raw water
	cooling. Used in pre-heating applica-
	tions (includes gaskets and block off
	plate with vent hole).
1-0107	Center riser manifold-to-riser gasket
	(raw water cooling).
20-0082P	Riser mounting package for both
	20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package
	(with brass plugs) for both 20-0082
	and 20-0100. Not pictured.
20-0084P	Straight exhaust adaptor (includes
	adaptor, hose and clâmps). For use
	with 3 1/2" I.D. exhaust hose.
20-0085P	Straight exhaust adaptor (includes
	adaptor, hose and clamps). For use
	with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with $2 1/2$ " I.D. exhaust hose.
20-0087P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
20 00000	
20-0089P	30 degree exhaust elbow adaptor
20-0089P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps).
20-0089P	30 degree exhaust elbow adaptor
20-0089P 20-0092P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor
	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps).
	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor
20-0092P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor
20-0092P	30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust
20-0092P 20-0093P	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.
20-0092P	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with
20-0092P 20-0093P	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4"
20-0092P 20-0093P 20-0097	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
20-0092P 20-0093P	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in-
20-0092P 20-0093P 20-0097 FM-1-83P	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in- cludes bolts and pipe plugs).
20-0092P 20-0093P 20-0097	 (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in- cludes bolts and pipe plugs). Stainless steel manifold mounting
20-0092P 20-0093P 20-0097 FM-1-83P	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in- cludes bolts and pipe plugs). Stainless steel manifold mounting package (includes stainless bolts and
20-0092P 20-0093P 20-0097 FM-1-83P	 30 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in- cludes bolts and pipe plugs). Stainless steel manifold mounting

- 6-1/8"

/8"

6-

2

charge

Internal Water

Universal Atomic 4 8-1/2" LOG STYLE DIRECT REPLACEMENT 2-9/16" 6-1/8" 6-1/8"



UV-1-259624	Water cooled manifold.
UV47-261050	Manifold to cylinder head gasket. Direct replacement for Universal gasket part # 261050.





69

8-1/2"

9-1/2"

Part Number

2-9/16"





VO-1-824532	Dierect replacement water cooled exhaust manifold. Replaces Volvo part # 824532-6.
VO-20-825599	Direct replacement exhaust elbow. Replaces Volvo part # 825599-4.
VO47-856028	Direct replacement exhaust elbow to manifold gasket. Replaces Volvo part # 856028.





8-1/2"

Barr Marine extends a 1 year warranty on this exhaust manifold.



5/8

"A

2-9/16"

-6-1/8"

18'

6-

.9-1/2"-

Dart



LOG STYLE DIRECT REPLACEMENT



VO 1 855387

VO-1-855387	Direct replacement water cooled exhaust manifold. Replaces Volvo part # 855387-7 and 834438-4.
VO47-855383	Exhaust manifold to cylinder head gasket (requires four gasket per engine).

Note:

Manifold includes all plugs, gaskets and mounting hardware to head.



Barr Marine extends a 1 year warranty on this exhaust manifold.



8-1/2'

9-1/2"

Part Number

9/16

Volvo V6-4.3L Cobra



Discharge

CENTER RISER DIRECT REPLACEMENT



OMC 1 3857656

OMC-1-3857656	Direct replacement exhaust manifold. Replaces Volvo part # 3857656.
OMC-20-913784	Direct replacement exhaust riser/ elbow. Replaces OMC # 913784 and Volvo part # 3863061 (New Style).
OMC-20-913784P	Exhaust riser/elbow mounting pack- age.
MC47-27 99757	Exhaust manifold to cylinder head gasket.
OMC47-913783	Direct replacement exhaust riser/ elbow to manifold gasket.
50-512-017	Replacement 1/2" N.P.T. to 1" hose (straight)/brass hose fitting.

"A"

2

Internal

incharge

Water

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



OMC 20 913784





OMC47 913783







Volvo V8-307 and 350 C.I.D. ALL MODELS CENTER RISER GENERIC



8-1/2"

CHV 1 83



20 0100





20 0087P



20 0088P





20 0082

20 0085P

20 0092P

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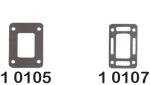
20 0086P

20 0093P

20 0082P



CHV 1 83P



Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.



01111 1 00	Y
CHV-1-83	Water cooled center discharge mani- fold to fit the small block GM engine (3/4" N.P.T. cooling hose con-
	nections). All years.
20-0082	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 3"
	I.D. exhaust hose.
20-0100	Water cooled center discharge riser
	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 4"
1-0104P	I.D. exhaust hose.
1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets
	and block off plate).
1-0105	Center riser manifold-to-riser gaske
1-0105	for fresh water cooling.
1-0106P	
1-0100P	Adaptor package for raw water cooling. Used in pre-heating applica
	tions (includes gaskets and block off
	plate with vent hole).
1-0107	Center riser manifold-to-riser gaske
1 010/	(raw water cooling).
20-0082P	Riser mounting package for both
20 00021	20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package
20 000200 1	(with brass plugs) for both 20-0082
	and 20-0100. Not pictured.
20-0084P	Straight exhaust adaptor (includes
	adaptor, hose and clamps). For use
	with 3 1/2" I.D. exhaust hose.
20-0085P	Straight exhaust adaptor (includes
	adaptor, hose and clamps). For use
	with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor for
	I/O applications (includes adaptor,
	hose and clamps). For use with $2 1/2$
	I.D. exhaust hose.
20-0087P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps)
20.0000	For use with 3" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps)
20.0000	For use with 2 1/2" I.D. exhaust hose
20-0089P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps) For use with 3" I.D. exhaust hose.
20.00020	
20-0092P	45 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps) For use with 3" I.D. exhaust hose.
20-0093P	90 degree exhaust elbow adaptor
40-00731	(includes adaptor hose and clamps)
	(includes adaptor, hose and clamps) For use with 3 1/2" or 4" I.D. exhaus
	hose.
20-0097	3" spacer block (complete with
	mounting hardware, gasket and $3/4$
	pipe plug). Capable of stacking.
CHV-1-83P	Manifold mounting package (in-
	cludes bolts and pipe plugs).
CHV-1-83SS-P	Stainless steel manifold mounting package (includes stainless bolts and
	package (includes stainless bolts and
	brass plugs). Not pictured.
CHV-27-0083	Alternator bracket. Use where engin
	water pump is mounted on port side
	of engine below alternator.
CHV-47-0000	Manifold to cylinder head gasket.
OMC-20-0003	Hose bushing 3° to $3 1/2^{\circ}$.

2-9/16

116

6-1/8"

6-1/8"

8-1/2"

Part Number

9-1/2"

Volvo V8-307 and 350 C.I.D.

² Models AQ 200D, 200F, 225D, 225E, 225F, 255B, 260A, 271A, 280A, 290A, 311A BB, 225A, 225 AV, 225B, 260A, 260B and 260C CENTER RISER DIRECT REPLACEMENT



Discharge

VO 1 835804

VO-1-835804	Direct replacement water cooled exhaust manifold. Replaces Volvo part # 835804-6.
VO-20-855384	Direct replacement exhaust riser/ elbow. Replaces Volvo part # 855384-4.
VO-20-855384P	Exhaust riser/elbow mounting pack- age.
VO47-835908	Exhaust riser/elbow to manifold gasket.
VO47-841601	Exhaust manifold to cylinder head gasket

Internal

Water

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.













CENTER RISER DIRECT REPLACEMENT

Volvo V8-5.7L Cobra



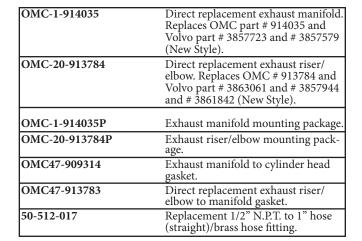
8-1/2"

OMC 1 914035



OMC 20 913784





-6-1/8"

18'

6-

Note:

Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.













Volvo V8-5.0L and 5.8L Cobra

Part Number 2 All Models Carbureted

Discharge

OMC 1 3852347

OMC-1-3852347	Direct replacement exhaust manifold. Replaces Volvo part # 3852347.
OMC-20-913784	Direct replacement exhaust riser/ elbow. Replaces OMC # 913784 and Volvo part # 3863061 (New Style).
OMC-20-913784P	Exhaust riser/elbow mounting pack- age.
FM 47 0000	Exhaust manifold to cylinder head gasket.
OMC47-913783	Direct replacement exhaust riser/ elbow to manifold gasket.
50-512-017	Replacement 1/2" N.P.T. to 1" hose (straight)/brass hose fitting.

CENTER RISER DIRECT REPLACEMENT

Note:

Manifold includes all plugs, gaskets, hose fitting and mounting hardware to head. Risers include plugs, gasket and mouniting hardware to mount to manifold.





FM 47 0000



Warning: Barr Riser Shown Only Fits Carbureted Ford Engines! Will Not Directly Replace Volvo Part #'s 3855271 (port) Or 3855269 (stbd) Risers for EFI Models







OMC 20 913784



Internal Water **CENTER RISER GENERIC**

Waukesha V8-302 and 351 C.I.D. All Years



8-1/2"

FM 183

20 0082

20 0086P

20 0093P

1 0 1 0 7

8-1/2"

20 0085P

20 0092P



20 0100



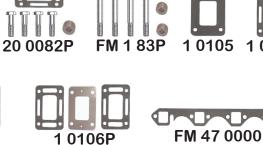












Note: Manifold includes all plugs, gaskets and mounting hardware to head. Risers include plugs, gasket and mounting hardware to mount to manifold.

FM-1-83	Water cooled center discharge mani
FW1-1-83	Water cooled center discharge mani- fold to fit the small block Ford engine
	(3/4" N.P.T. cooling hose con-
	nections). All years.
20-0082	Water cooled center discharge riser
20 0002	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 3"
	I.D. exhaust hose.
20-0100	Water cooled center discharge riser
20-0100	(3/4" N.P.T. cooling hose con-
	nection). Standard for use with 4"
	I.D. exhaust hose.
1-0104P	
1-01041	Adaptor package for fresh water cooled manifold (includes gaskets
	and block off plate).
1-0105	
1-0105	Center riser manifold-to-riser gasket
1 010/D	for fresh water cooling.
1-0106P	Adaptor package for raw water
	cooling. Used in pre-heating applica-
	tions (includes gaskets and block off
	plate with vent hole).
1-0107	Center riser manifold-to-riser gasket
	(raw water cooling).
20-0082P	Riser mounting package for both
	20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package
	(with brass plugs) for both 20-0082
	and 20-0100. Not pictured.
20-0084P	Straight exhaust adaptor (includes
20 00011	adaptor, hose and clamps). For use
	with 3 1/2" I.D. exhaust hose.
20-0085P	Straight exhaust adaptor (includes
20-00851	adaptor, hose and clamps). For use
	with 2 1/2" I.D. exhaust hose.
20-0086P	90 degree exhaust elbow adaptor
20-0080F	(includes adaptor, hose and clamps).
	For use with 2 1/2" I.D. exhaust hose.
20.000 5 D	
20-0087P	90 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 3" I.D. exhaust hose.
20-0088P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps).
	For use with 2 1/2" I.D. exhaust hose
20-0089P	30 degree exhaust elbow adaptor
	(includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
	East and the 3" ID and another at here the
	For use with 5 1.D. exhaust nose.
20-0092P	
20-0092P	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps).
20-0092P	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps).
	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose.
20-0092P 20-0093P	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor
	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor
	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor
20-0093P	45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose.
	 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with
20-0093P	 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4"
20-0093P 20-0097	 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking.
20-0093P	 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in-
20-0093P 20-0097 FM-1-83P	 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in- cludes bolts and pipe plugs).
20-0093P 20-0097	 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in- cludes bolts and pipe plugs). Stainless steel manifold mounting
20-0093P 20-0097 FM-1-83P	 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in- cludes bolts and pipe plugs). Stainless steel manifold mounting package (includes stainless bolts and
20-0093P 20-0097 FM-1-83P	 45 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3" I.D. exhaust hose. 90 degree exhaust elbow adaptor (includes adaptor, hose and clamps). For use with 3 1/2" or 4" I.D. exhaust hose. 3" spacer block (complete with mounting hardware, gasket and 3/4" pipe plug). Capable of stacking. Manifold mounting package (in- cludes bolts and pipe plugs). Stainless steel manifold mounting

2-9/16

2-9/16"

6-1/8"

6-1/8"



9-1/2"

Part Number

Part Number 20-0000 Part Number



20 0100





8-1/2"



20 0082SS P

20-0100	Water cooled center discharge riser (3/4" N.P.T. cooling hose con- nection). Standard for use with 4" I.D. exhaust hose.
1-0104P	Adaptor package for fresh water cooled manifold (includes gaskets and block off plate).
1-0105	Center riser manifold-to-riser gasket for fresh water cooling.
1-0106P	Adaptor package for raw water cooling. Used in pre-heating applica- tions (includes gaskets and block off plate with vent hole).
1-0107	Center riser manifold-to-riser gasket (raw water cooling).
20-0082P	Riser mounting package for both 20-0082 and 20-0100.
20-0082SS-P	Stainless steel mounting package (with brass plugs) for both 20-0082 and 20-0100.

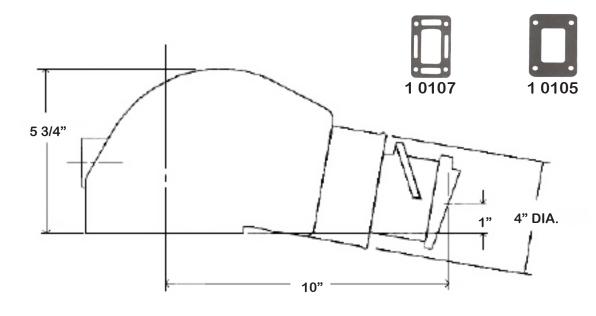
.2

Internal Water

The Barr Center Riser is designed to limit back pressure on the engine. This riser is to be utilized with the Barr CHV-1-83, FM-1-83 and CHVA-1-84 manifolds!

Note:

Riser includes plug, gasket and mounting hardware to mount to manifold.





78

Part Num

-5/8"

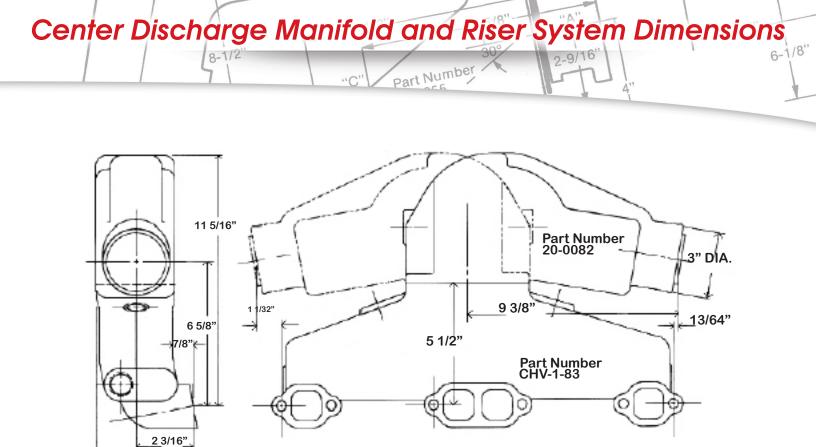
-9-1/2"-

"A"

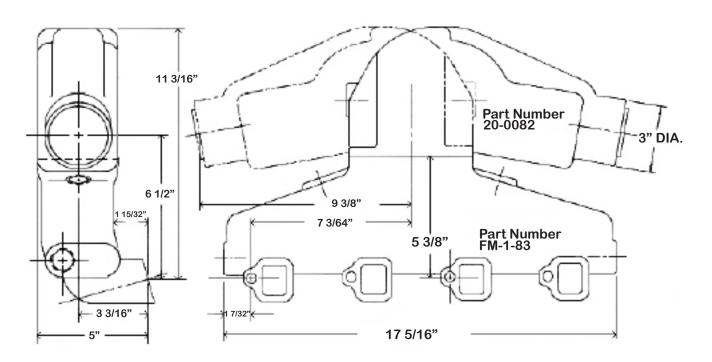
2-9/16

- 6-1/8"

6-1/8"



4 1/2" Portside 4 3/8" Starboard





79

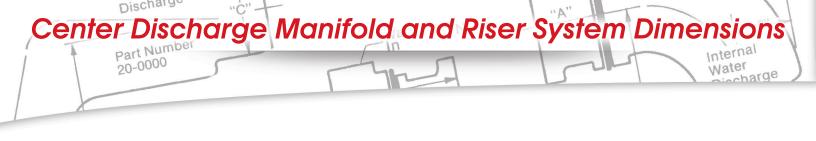
8-1/2"

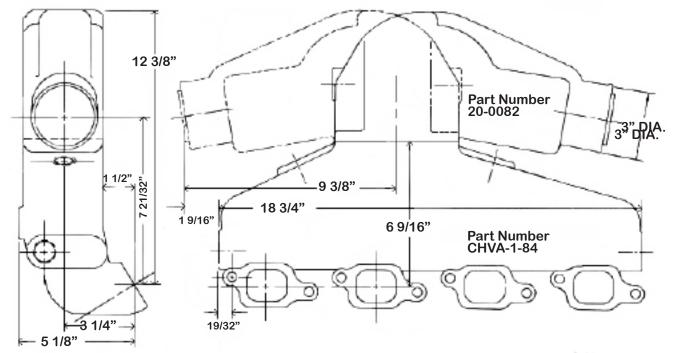
9-1/2"

.51

Part Number

2-9/16"







80

Part Number

.9-1/2"-

8-1/2"

-5/8"

30

"A"

2-9/16"

_6-1/8"

6-1/8"

Exhaust Risers and Connectors

"C"

Part Number

6-1/8"

4"

6-1/8"

Part#	Detailed Description
1-0001	AdaptorAdaptor for Barr manifold replacing size "A" end plate (2" pipe). Order (1) for 4 or 6 cylinder engines or (2) for V8 cylinder engines.
1-0081	Adaptor for Barr round-type Oldsmobile conversion manifold (OR-1-73). Order (2) for Oldsmobile V8 cylinder engines.
1-0012L	Adaptor for Chris Craft V8 283 C.I.D. manifolds prior to Models F, G, K and Q (three pass system), "L" for left side. Order (1) for Chris Craft V8 cylinder engines (port/left side).
1-0012R	Adaptor for Chris Craft V8 283 C.I.D. manifolds prior to Models F, G, K and Q (three pass system), "R" for right side. Order (1) for Chris Craft V8 cylinder engines (starboard/right side).
1-0283A	Adaptor for Chris Craft V8 283, 302, 305, 307, 327 and 350 C.I.D. manifolds; models F, G and K (two pass system). Order 2 for Chris Craft V8 cylinder engines.
1-0283L	Adaptor for Chris Craft V8 283, 302, 305, 307, 327 and 350 C.I.D. manifolds; model Q (single pass system), "L" for left side. Order (1) for Chris Craft V8 cylinder engines (port/left side).
1-0283R	Adaptor for Chris Craft V8 283, 302, 305, 307, 327 and 350 C.I.D. manifolds; model Q (single pass system), "R" for right side. Order (1) for Chris Craft V8 cylinder engines (starboard/right side).
1-0007	Adaptor for Chrysler V8 383, 413 and 440 C.I.D. manifolds (4 bolt), Chrysler Ace and Crown Engines. Order (1) for Ace and Crown 6 cylinder engines and (2) for Chrysler V8 engines.
1-0013L	Adaptor for Chrysler V8 318 C.I.D. (prior to 1966); "L" for left side. Order (1) for Chrysler V8 engines (port/left side).
1-0013R	Adaptor for Chrysler V8 318 C.I.D. (prior to 1966); "R" for right side. Order (1) for Chrysler V8 engines (port/left side).
1-0071	Adaptor for Chrysler V8, Model M 81 (225 H.P.). Order (2) for Chrysler M 81 V8 engines.
CM-1-6672C	Adaptor for Chrysler V8 318 C.I.D. (after 1966). Order (2) for Chrysler V8 engines.
1-0002	Adaptor for Graymarine V8 327 C.I.D. (4 bolt flange). Order (2) for Graymarine V8 (4 bolt) engines.
1-0069	Adaptor for Graymarine V8 327 C.I.D. (3 bolt flange). Order (2) for Graymarine V8 (3 bolt) engines.
1-0070	Adaptor for Palmer V8, Model 14-345
1-0014	Universal adaptor to fit any engine with 3 1/4" or smaller manifold end (drill to suit manifold). Order (1) for 4 or 6 cylinder engines or (2) for V8 cylinder engines.
20-0008	Adaptor for 2" standard N.P.T. pipe thread. Order (1) for 4 or 6 cylinder engines or (2) for V8 cylinder engines.
20-0004	Adaptor for 2 1/2" standard N.P.T. pipe thread. Order (1) for 4 or 6 cylinder engines or (2) for V8 cylinder engines.



81

8-1/2"

9-1/2"-

"C'

-57

Part Number

2-9/16"

"C" -**Exhaust Risers and Connectors**



Discharge

Part Number 20-0000

20 0000



20 0055

20-0000	Swivel-type high discharge exhaust riser; 8 1/2" riser protection. Re- quires (1) mounting hardware kit #20-0002P per riser. Use only with 2 7/8" to 3" I.D. exhaust hose.
20-0002P	Mounting hardware kit.
20-0031	Swivel-type 90 degree exhaust elbow connector with internal water dis- charge. Accepts 2 1/2" to 3" I.D. ex- haust hose. Requires (1) mounting hardware kit #20-0002P per elbow.
20-0034 or 20-0035	Exhaust connector #20-0035 (for 2 1/2" I.D. exhaust hose) or exhaust connector #20-0034 (for 3" I.D. exhaust hose). Connects to #20-0039 using (1) #20-0002P per connector.
20-0039	Fully jacketed swivel-type exhaust riser; 7" riser protection. Requires (2) mounting hardware kits #20-0002P ((1) kit to mount riser to manifold and (1) kit to mount elbows #20-0034 or #20-0035 to riser).
20-0055	Swivel-type 30 degree exhaust elbow connector; fully jacketed. Accepts 2 1/2" or 3" I.D. exhaust hose. Re- quires (1) mounting hardware kit #20-0002P per elbow.

Note: A header adaptor style end cap must be installed on the exhaust end of the log manifold in order to mount these risers or elbows. See the "Manifold End Plate and Gasket Identification Listing" page at the begin-ning of this catalog for the proper end plates specific to norm collication to your aplication.





20 0039

20 0034

.9-1/2"-

Q Q

Q Q

8-1/2"

20 0002P



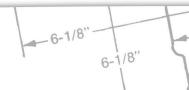
82

Part NUT

-5/8

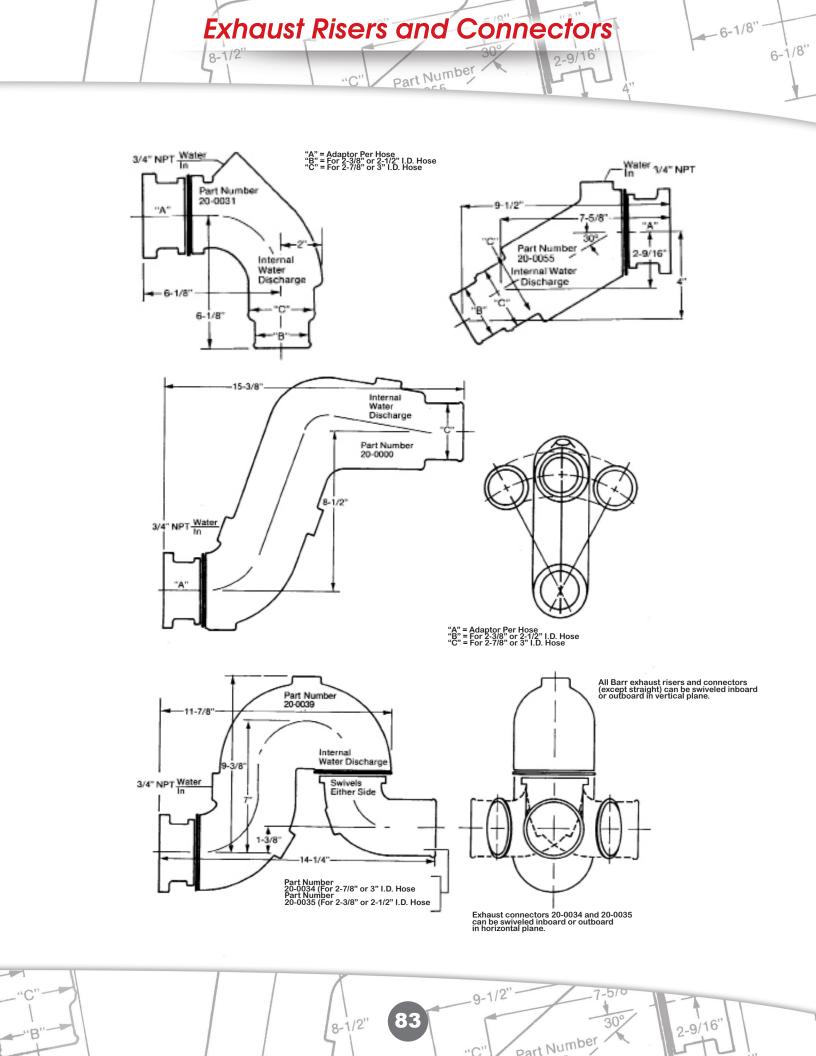
"A"

2-9/16



2

Internal Water incharge



Thermostat and Thermostat Housing Assemblies Barr Marine Style



Discharge

CHV 29 0120



CHV 29 80



CHVA 29 78



FM 29 0083

CHV-29-0120	Thermostat housing assembly for dual pump cooling system on 4 cyl. Chevrolet engines.
CHV-29-80	Thermostat housing assembly for dual pump cooling system on Chev- rolet V6 and Small Block V8 engines.
CHVA-29-78	Thermostat housing assembly for dual pump cooling system on Big Block Chevrolet V8's.
CM-29-3675303	Chrysler thermostat (140 degree).
CM-29-4142522	Chrysler thermostat (163 degree).
CR-29-96319	Crusader thermostat (143 degree).
FM-29-0083	Thermostat housing assembly for dual pump system on Small Block Ford V8's.
MC-29-59078	MerCruiser thermostat for models 120, 140, 120R/140R, 160, 165 and 200.
MC-29-59137	MerCruiser thermostat for models 888 (Ford), 225 (Ford), 233 (Ford) and 255 (Ford).
OMC-29-383307	OMC thermostat (160 degree).
OR-29-74	Thermostat housing assembly for dual pump cooling system on Olds- mobile V8's (350, 403 and 455 C.I.D.).



OR 29 74







Internal Water

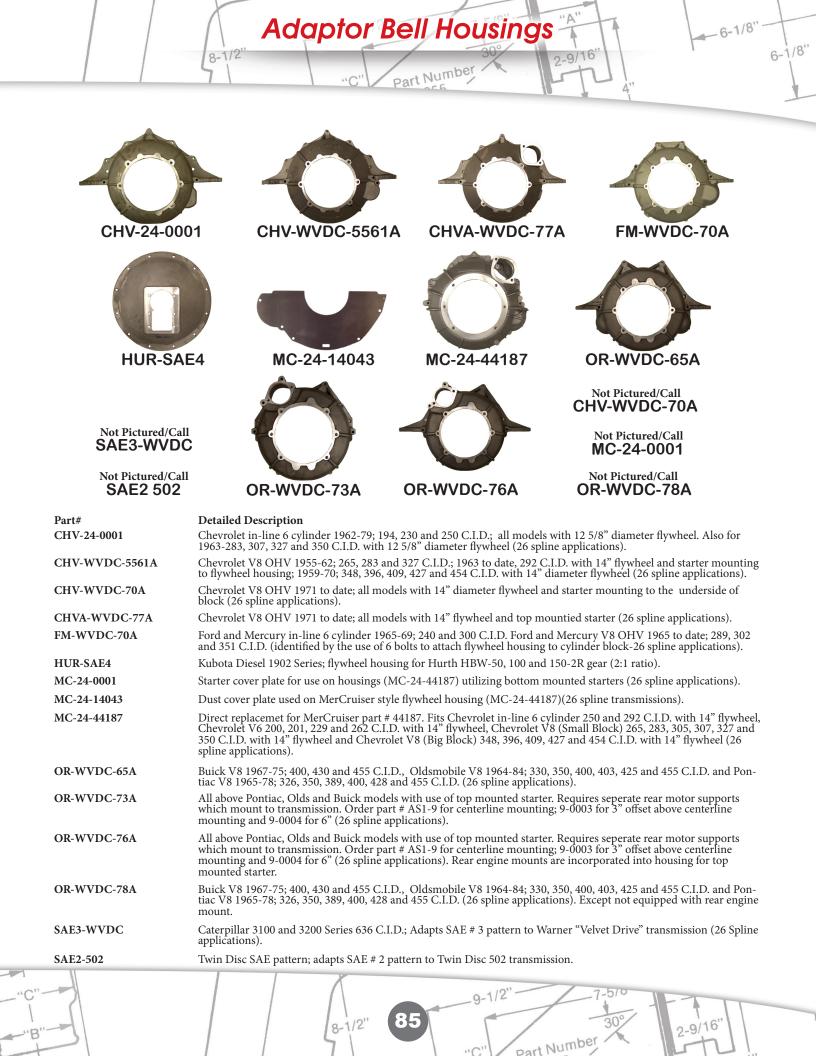










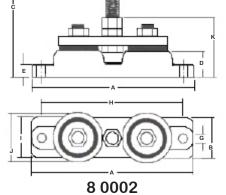


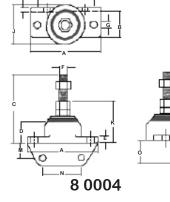
"Ċ"-**Rubber Engine Mounts**

П 8 0001

Discharg

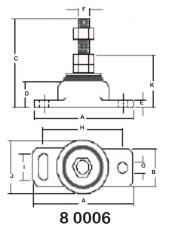
Part Number 20-0000

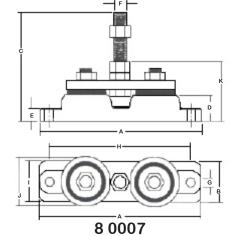


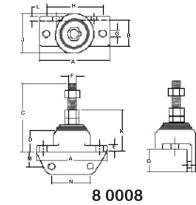


8-0001	Rubber engine mount; single. Adjus- table both vertically and horizontally to facilitate engine-propeller shaft alignment. Each mount has a capacity of 350 lbs. The rubber cushions are locked to the base and are oil and fuel resistant.
8-0002	Rubber engine mount; double. Incre- ased capacity for Diesel and extra heavy-duty applications. The rubber cushions are locked to the base, not vulcanized and can be replaced. This mount is vertically adjustable to facil itate engine alignment. Each mount has a capacity of 350 lbs.
8-0004	Rubber engine mount; single. This mount retains all of the fine features of the 8-0001 augmented by an ad- ditional tie-down area to bolt to the stringer pads. Each mount has a cap- acity of 350 lbs.
8-0006	Rubber engine mount; single. Adjus- table both vertically and horizontally to facilitate engine-propeller shaft alignment. Each mount has a capacity of 350 lbs. The rubber cushions are locked to the base and are oil and fuel resistant.
8-0007	Rubber engine mount; double. Incre- ased capacity for Diesel and extra heavy-duty applications. The rubber cushions are locked to the base, not vulcanized and can be replaced. This mount is vertically adjustable to facil itate engine alignment. Each mount has a capacity of 550 lbs.
8-0008	Rubber engine mount; single. This mount retains all of the fine features of the 8-0006 augmented by an ad- ditional tie-down area to bolt to the stringer pads. Each mount has a cap- acity of 350 lbs.

Internal Water







Specifications For Rubber Engine Mounts

Part # 8-0001	A 5	В 1 3/4	C 4 1/2	D 1 5/16	E 5/8	F 5/8 - 18UNF	Hold Down Bolt Size G 7/16	H 4	l 1 3/16	J 2 1/2	K 2 11/16	L N/A	M N/A	N N/A	O N/A	Max Rated Load Per Mount In Lbs. 350	Deflection at Avg. Rated Load In Ins. 0.060	Packaged Weight In Lbs. 3
8-0002	8 1/4	2	5 5/8	1 5/16	5/8	5/8 - 18UNF	7/16	7 1/4	N/A	2 1/2	3 1/8	N/A	N/A	N/A	N/A	550	0.060	5
8-0004	5	1 3/4	4 1/2	1 5/16	5/8	5/8 - 18UNF	7/16	4	N/A	2 3/4	2 11/16	1/4	1	2 3/4	1 1/2	350	0.060	3.5
8-0006	5	1 3/4	4 1/2	1 5/16	5/8	3/4 - 16UNF	7/16	4	1 3/16	2 1/2	2 11/16	N/A	N/A	N/A	N/A	350	0.060	3
8-0007	8 1/4	2	5 5/8	1 5/16	5/8	3/4 - 16UNF	7/16	7 1/4	N/A	2 1/2	N/A	N/A	N/A	N/A	N/A	550	0.060	5
8-0008	5	1 3/4	4 1/2	1 5/16	5/8	3/4 - 16UNF	7/16	4	N/A	2 3/4	2 11/16	1/4	1	2 3/4	1 1/2	350	0.060	3

	7-5/8"	. (0)'
	9-1/2	6-1/8
8-1/2"	86 30° 2-9/16″	6-1/8
7 \	"C" Part Number	

Torsional Dampers

"C'

Part Number



8-1/2"



AS3-K2C	Heavy duty damper for diesel applic- ations up to 15" diameter for 26 spline transmissions. Not pictured.
AS4-K1C	6.50" diameter damper (5.593" bolt circle diameter) for 26 spline trans- missions as used on flywheel forward Flagship and Chris Craft installations Replaces Chris Craft part # 16.99-08334.
AS4-K2C	Three-legged damper for 26 spline transmissions and flywheel diameters more than 13.32". For V8 engines up to 350 C.I.D.
A\$5-K2C	Full circle damper 13.25" diameter for 26 spline transmissions. For eng- ines up to 370 C.I.D. Not pictured.
AS7-K1C	7.12" diameter damper (6.58" bolt circle diameter) for 26 transmissions
AS7-K2C	Full circle damper 13.25" diameter for 26 spline transmissions. For eng- ines up to 454 C.I.D.
AS8-K2C	Three-legged damper for 26 spline transmissions and flywheel diameters less than 13.32". For V8 engines up to 350 C.I.D.
1004-65-0001	Full circle damper 13.87" diameter for 26 spline transmissions (use on CAT 3208's and Detroit Diesel 6-71's). Not pictured.

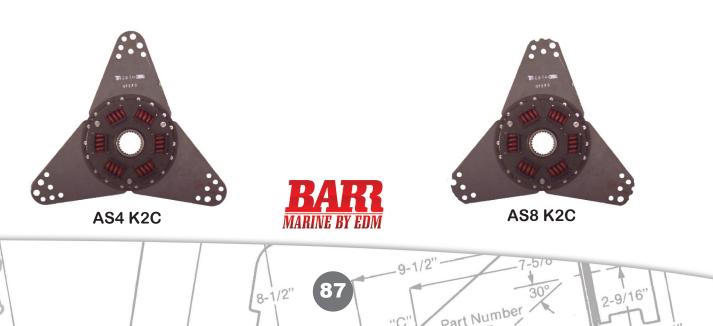
"A"

2-9/16"

-6-1/8"

6-1/8"





Flame Arrestors



Discharge

Part Number 20-0000

CAO 10 59

CAO-10-59	Flame arrestor; throat diameter- 4 1/4" and height-2 1/8".
CHV-10-56	Flame arrestor; throat diameter- 2 5/8" and height-1 7/8".
LEM-10-58	Flame arrestor; throat diameter- 5 1/8" and height-3 1/4".
OR-10-61	Flame arrestor; throat diameter- 3 1/8" and height-1 7/8".
OR-10-66	Flame arrestor; throat diameter- 5 1/8" and height-2 1/4".

"A"

2

Internal Water



CHV 10 56





8-1/2"



-6-1/8"

6-1/8"

"A"

2-9/16"



88

Part Nun

7-5/8"

-9-1/2"-

CHRIS CRAFT TO BARR

CHRIS CRAFT PART #	BARR PART #
16.20-07593	CC 20 07593
16.20-07605	CC 20 07605
16.20-07686	CC 1 07686
16.20-08288	CC 20 08288
16.20-08289	CC 20 08289
16.50-05944	CC47 1650 0594
16.50-06022	CC47 1650 0602
16.50-07290	CC47 1650 0729
16.50-07596	CC47 1650 0759
16.50-07597	CC47 1650 0759
16.50-07681	CC47 1650 0768
CHDVSI ED TO BADD	

8-1/2"

CHRYSLER TO BARR

CHRYSLER PART #	BARR PART #
2469556	CM 1 6672A
2469639	CM 20 2847405
2600402	CM 20 2600402
2846106	CM 1 6672B
2846689	CM 20 6674
2847404	CM 20 4142411
2847405	CM 20 2847405
2847623	CM 20 4142411
3527781	CM 1 6672E
3527794	CM 20 6672
3619659	CM 1 5972A
3675826	CM 1 6677A
3745639	CM 20 4142411
4142322	CM 1 6677A
4417063	CM 1 4417063
E7081M	CM 1 5972A
E9232M	CM 20 9232
E9233M	CM 20 4142411

CRUSADER TO BARR

CRUSADER PART #BARR PART #58759A1420471CR 50 2047160252A222032CR 50 2203260783A322033CR 50 2203360783A396108CR47 C 9610861851A396120CR 1 9775263122A1396121CR 1 9775363588A196366CHV 47 000065603A1396560CR 20 965605604A1296562CR47 C 9656273811A197169CR 20 9716973813A197387CR 20 9762476325A99752CR 1 9775276351A297753CR 1 9775376351A297754CR 1 9775376351A2	CRUSADER I O BARR		33338AZ
20471CR 50 2047159498A122032CR 50 2203260783A322033CR 50 2203361851A396108CR47 C 9610861851A396120CR 1 9775263122A1396121CR 1 9775363588A196306CHV 47 000065603A1396369CR 50 9636965604A1296560CR 20 9656072963A996562CR47 C 9656272963A996653CHVA 47 000073811A197169CR 20 9716973813A197387CR 20 9762476325A997752CR 1 9775276351A297753CR 1 9775376351A2	CRUSADER PART #	BARR PART #	
22032CR 50 2203260252A222033CR 50 2203360783A396108CR47 C 9610861851A396120CR 1 9775263122A1396121CR 1 9775363122A1396306CHV 47 000065603A1396369CR 50 9636965604A1296560CR 20 9656072963A996562CR47 C 9656272963A996653CHVA 47 000073811A197169CR 20 9716973813A197387CR 20 9762476325A997752CR 1 9775276351A297753CR 1 9775376351A2	20471		59498A1
22033CR 50 2203360783A396108CR47 C 9610862898A196120CR 1 9775263122A1396121CR 1 9775363588A196306CHV 47 000063588A196369CR 50 9636965603A1396560CR 20 9656072963A996562CR47 C 9656273811A197169CR 20 9716973813A197387CR 20 9762476325A997752CR 1 9775276351A297753CR 1 9775376351A2	22032		60252A2
96108CR47 C 9610861851A396120CR 1 9775263122A1396121CR 1 9775363588A196306CHV 47 000065603A1396369CR 50 9636965604A1296560CR 20 9656072963A996562CR47 C 9656273811A197169CR 20 9716973813A197387CR 20 9762476325A99752CR 1 9775276351A297753CR 1 9775376351A2	22033		60783A3
96120 CR 1 97752 62898A1 96121 CR 1 97753 63122A13 96306 CHV 47 0000 63588A1 96309 CR 50 96369 65603A13 96560 CR 20 96560 72963A9 96562 CR47 C 96562 73811A1 97169 CR 20 97169 73813A1 97387 CR 20 97624 76325A9 97752 CR 1 97752 76351A2 97753 CR 1 97753 76351A2	96108		61851A3
96121 CR 1 97753 63122A13 96306 CH V 47 0000 63588A1 96306 CH V 47 0000 65603A13 96369 CR 50 96369 65604A12 96560 CR 20 96560 72963A9 96562 CR47 C 96562 73811A1 97169 CR 20 97169 73813A1 97387 CR 20 97624 76325A9 97752 CR 1 97752 76351A2 97753 CR 1 97753 76351A2			62898A1
96306CHV 47 000063588A196369CR 50 9636965603A1396560CR 20 9656072963A996562CR47 C 9656272963A996653CHVA 47 000073811A197169CR 20 9716973813A197387CR 20 9738776325A997624CR 20 9762476351A297752CR 1 9775276351A2			63122A13
96369CR 50 9636965603A1396560CR 20 9656072963A996562CR47 C 9656272963A996653CHVA 47 000073811A197169CR 20 9716973813A197387CR 20 9738776325A997624CR 20 9762476351A297752CR 1 9775276351A297753CR 1 97753			63588A1
96560 CR 20 96560 65604A12 96562 CR47 C 96562 72963A9 96553 CHVA 47 0000 73811A1 97169 CR 20 97169 73813A1 97387 CR 20 97387 76325A9 97624 CR 20 97624 76351A2 97752 CR 1 97752 76351A2			65603A13
96562 CR47 C 96562 72963A9 96653 CHVA 47 0000 73813A1 97169 CR 20 97169 73813A1 97387 CR 20 97387 76325A9 97624 CR 20 97624 76351A2 97752 CR 1 97752 76351A2 97753 CR 1 97753 76351A2			65604A12
96653 CHV 0 50302 73811A1 9769 CHVA 47 0000 73813A1 97169 CR 20 97169 73813A1 97387 CR 20 97387 76325A9 97624 CR 20 97624 76351A2 97752 CR 1 97752 76351A2 97753 CR 1 97753 76351A2			72963A9
97169CR 20 9716973813A197387CR 20 9738773813A197624CR 20 9762476325A997752CR 1 9775276351A297753CR 1 9775376351A2			73811A1
97387 CR 20 97387 73813A1 97624 CR 20 97624 76325A9 97752 CR 1 97752 76351A2 97753 CR 1 97753 76351A2			73813A1
97624 CR 20 97624 76325A9 97752 CR 1 97752 76351A2 97753 CR 1 97753 76351A2			73813A1
97752 CR 1 97752 76351A2 97753 CR 1 97753 76351A2			76325A9
97753 CR 1 97753 76351A2			76351A2
			76351A2
	71133	CK I 9//53	76668A3

CRUSADER TO BARR (CONTINUED)

2-9/16

Crossover Reference Guide

"C'

05944

06022

07290 07596

07597 07681

Part Number

	,
CRUSADER PART #	BARR PART #
97772	CR 20 97772
97924	CR 20 97924
97992	CR 1 97992
97993	CR 1 97993
98068	CR 20 98068
98126	CR 20 98126
98243	CR 1 98243
MADINE DOWED TO BADD	

- 6-1/8"

6-1/8"

MARINE POWER TO BARR

MARINE POWER PART #	BARR PART #
0000-815H7	50 525 020
0991-110	CHVA 1 84
0991-600	CHVA 47 0000
0992-000	20 0082
0992-001	1 0106P
0992-300	1 0104P
0992-400	MC 20 44354
0992-593	20 0100
0994-000	CHV 1 83
0994-600	CHV 47 0000

MERCRUISER TO BARR

MERC. PART #	BARR PART #
97429	MC 29 97429
12076A2	MC 20 12076
47441A1	MC 29 47441
47442A1	MC 20 47442
47638A1	1 47638
47735A17	MC 1 47735
47736A17	MC 1 47736
47737A10	MC 1 47737
47738A10	MC 1 47738
55538A2	MC 20 55538
58759A14	MC 1 58759
59498A1	MC 29 59498
60252A2	1 60252
60783A3	MC 29 60783
61851A3	MC 20 61851A2
62898A1	MC 29 62898
63122A13	MC 1 63122
63588A1	MC 29 63588
65603A13	MC 1 65603
65604A12	MC 1 65604
72963A9	MC 20 72963
73811A1	1 73811
73813A1	1 54870
73813A1	1 73813
76325A9	MC 20 76325
76351A2	MC 20 60426
76351A2	MC 20 76351
76668A3	MC 20 76668

2-9/16"

89

8-1/2"

.9-1/2"

"C'

Part Number

"Ċ" ----Crossover Reference Guide

MERCRUISER TO BARR (CONTINUED)

8-1/2"

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Discharge

Part Number 20-0000

NHER, PART # OMC PART # BARR PART # 76771A3 MC 20 76771 97758 OMC 1979758 77234A7 MC 177234 979760 OMC 1979759 77235A8 MC 177235 979760 OMC 1979761 78981A1 MC 29 78984 979761 OMC 1980761 806867A8 MC 19 97978 980882 OMC 20 910380 807978A6 MC 19 99730 980382 OMC 20 910380 80777A5 MC 20 93320A3 980459 OMC 20 980636 807476A6 MC 20 93322A3 980536 OMC 20 980636 807477A5 MC 20 4334 980536 OMC 20 980636 80246A10 MC 18 9174 980577 OMC 1984054 8029333 MC 29 0736 98059 OMC 1984054 9736A18 MC 29 98736 98059 OMC 1984054 980802 MC 19 5862 982680 OMC 1984054 980802 MC 20 9807 OMC 1984054 980536 980802 MC 20 9807 OMC 1984054 980536 980536	MERCRUISER TO BARR (CO	NTINUED)	OMC TO BARR (CONTINUED)		
76771A3 MC 1 973758 OMC 1 979758 77234A7 MC 1 77234 979759 OMC 1 979758 77235A8 MC 1 77235 979760 OMC 1 979759 78985A1 MC 29 78984 979761 OMC 1 979760 78985A1 MC 29 78985 980083 OMC 1 979761 806867A8 MC 1 99798 980188 OMC 20 910380 807078A6 MC 20 93320A3 980159 OMC 1 984054 807477A5 MC 20 9332A3 980160 OMC 1 984054 807788A2 MC 20 44354 980573 OMC 1 980059 8061493A3 MC 29 60372 980057 OMC 1 980059 8061493A3 MC 29 90736 980057 OMC 1 980059 8061493A3 MC 29 90736 980057 OMC 1 980059 80216A10 MC 1 98708 981281 OMC 20 980617 808042 MC 29 90736 980057 OMC 1 980059 90736A1B MC 29 90736 981281 OMC 20 981281 98804A3 MC 29 97428 982460 OMC 20 98260 98	MERC. PART #	BARR PART #	OMC PART #	BARR PART#	
77234A7 MC I 77234 979759 OMC I 979759 77235A8 MC I 77235 979760 OMC I 979760 78984A1 MC 29 78984 979761 OMC I 979761 78985A1 MC 29 78985 980083 OMC 1 984054 806867A8 MC I 99798 980188 OMC 20 9000 807476A6 MC 20 93320A3 980459 OMC 1 984162 807477A5 MC 20 93320A3 980459 OMC 1 984054 807477A5 MC 20 93320A3 980459 OMC 1 984054 807988A2 MC 20 4354 980572 OMC 1 984054 807988A2 MC 20 4354 980572 OMC 1 984054 81493A3 MC 29 9736 981281 OMC 1 984054 81493A3 MC 29 90736 981281 OMC 1 984054 98080A2 MC 20 90880 982490 OMC 1 984054 98080A2 MC 20 98080 982490 OMC 1 984054 98080A2 MC 20 98502 O6 CM 1 67272 98080A2 MC 20 98504 121 CM 1 5972C <	76771A3	MC 20 76771			
77235A8 MC 17235 979760 OMC 1979760 78984A1 MC 29 78984 979761 OMC 1979761 78985A1 MC 29 78985 980083 OMC 1979761 80867A8 MC 1 99798 980188 OMC 20 910380 807078A6 MC 189111 980382 OMC 24 910380 807477A5 MC 20 93320A3 980459 OMC 1981462 807477A5 MC 20 44354 980536 OMC 20 980536 801493A3 MC 29 47587 980617 OMC 1 980595 861493A3 MC 29 60372 980957 OMC 1 98059 90736A18 MC 29 90736 981281 OMC 20 980617 97390A4 MC 29 8720 980957 OMC 1 98054 9736A18 MC 29 90736 981281 OMC 20 981281 90880A2 MC 1 53390 OMC 1 984054 96705A10 MC 1 53290 OSCO 70 BARR 97428T2 MC 20 98504 121 CM 1 6972C 9746A17 MC 1 99746 121 CM 1 5972D NLA MC 20 98504 126 CM 1 5972D NLA MC 20 98504 126	77234A7	MC 1 77234			
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910380OMC 20 9103806022CC47 1650 060229103841 9103846108CR47 C 96108912441OMC 1 9124416325MC 20 76325912442OMC 1 9124426351MC 20 76351913784OMC 20 9137846562CR47 C 96562914035OMC 1 9140356705MC 1 96705	910144	OMC 1 912442	5805	VO 1 835804	
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913784 OMC 20 913784 6562 CR47 C 96562 914035 OMC 1 914035 6705 MC 1 96705	912441	OMC 1 912441	6325	MC 20 76325	
914035 OMC 1 914035 6705 MC 1 96705	912442	OMC 1 912442	6351	MC 20 76351	
	913784	OMC 20 913784	6562	CR47 C 96562	
979729 OMC 1 981462 6771 MC 20 76771	914035		6705	MC 1 96705	
	979729	OMC 1 981462	6771	MC 20 76771	
979730 OMC 20 980536 7056 CC 1 07686	979730	OMC 20 980536	7056	CC 1 07686	

-9-1/2"-"A" 7-5/8" 90 2-9/16" Part Number

6-1/8"-6-1/8"

-2".

Internal Water Part Number

2-9/16"

6-1/8"

6-1/8"

Crossover Reference Guide

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OSCO TO BARR (CONTINUED)

8-1/2"

OSCO TO BARR (CON	TINUED)	OSCO TO BARR (CON	TINUED)
OSCO PART #	BARR PART #	OSCO PART #	BARR PART #
7081	CM 1 5972A	8503-GB	MC47 27 41811
7169	CR 20 97169	8503-GR	MC47 27 41813
7296	CR 20 97296	9863-T	OMC 20 982680
7387	CR 20 97387	992-G	1 0107
7624	CR 20 97624	992-G-FW	1 0105
7752	CR 1 97752	992MK	20 0082P
7753	CR 1 97753	994-S3	20 0097
7772	CR 20 97772	BG	1 0019
7924	CR 20 97924	CV-GH	CHV 47 0000
7992	CR 1 97992	CW994	CHVA 1 84
7993	CR 1 97993	CW-GH	CHVA 47 0000
8068	CR 20 98068	CY4 GH	CHV 47 0120
8243	CR 1 98243	CY-MG	MC 1 6364G
8759	MC 1 58759	F66CS	50 512 019
9011	MC 1 89011	F68C9	50 525 020
9234	CM 20 9234	F68CS	50 512 020
9745	MC 1 99746	FL994	FM 1 83
9798	MC 1 99798	MC552-BB	MC 29 90736
41812	MC47 27 41812	MC552-SB	MC 29 90730 MC 29 87290
47510	MC47 27 47510	MC553-SB	MC 29 7290 MC 29 78984
48818	MC47 27 47510 MC47 27 48818	MC55-TBB	MC 29 78984 MC 29 47442
50456	OMC 20 913784	MC55-TSB	MC 29 47442 MC 29 47441
52076	MC47 27 52076		VO 1 855387
MC553-BB	MC47 27 32070 MC 29 78985	V0418	VO 1 855587
54870	1 54870		
56879	VO 20 855384	SIERRA TO BARR	
60252	1 60252	SIERRA PART #	BARR PART #
99204	20 0100	18-0113	MC47 27 97542
0188	OMC 20 910380	18-0114	OMC47 27 97 342
0402	CM 20 2600402	18-0183	MC47 27 73866
05944	CC47 1650 05944	18-0332	MC47 27 75800 MC47 27 35898
0879	MC 20 90880	18-0335	MC47 27 33898 MC47 27 39947
106-T	CM 1 6672H	18-0353	MC47 27 59947 MC47 27 58764
143-DEG	MC 29 59137	18-0356	MC47 27 58704 MC47 27 64692
145-DEG 1851(SINGLE)	MC 20 61851A2	18-0364	MC47 27 04092 MC47 27 73812
3320(SINGLE)	MC 20 93320A3	18-0418	MC47 27 75812 MC47 27 46820
3322(SINGLE)	MC 20 93320A3 MC 20 93322A3	18-0672	MC47 27 40820 MC47 27 41811
480-MK	CM 20 6672P	18-0872	MC47 27 41811 MC47 27 33395
480-MK	CM 20 6674P	18-0885	MC47 27 55595 MC47 27 48042
480-MK-FW	CM 20 6672J P	18-0897	
480-MK-FW	CM 20 6674J P	18-0903	MC47 27 41813 MC47 27 49110
7081-GH	CM 1 5972P	18-0928	
7087-MK	CM 1 5972P CM 20 9232P	18-0943	MC47 27 73814
7087-OR	CM 20 9252P CM 20 9225/6	18-0954	OMC47 909786
7087-OR 7114B2	MC 1 87114	18-0992	MC47 27 92720
7114B2 7234B	MC 1 87114 MC 1 77234	18-1203	MC47 27 68715
7234B 7235B	MC 1 77234 MC 1 77235	18-1203	MC47 27 53354
7255B 826GH	CM 1 6672P	18-1204	MC47 27 96429
		18-1210	MC47 27 39917
826-MK-SS 8503A	CM 1 6677 SS P MC 20 98504	18-1902	MC47 27 39923
8503A 8503-G0	MC 20 98504 MC47 27 87105	18-1902	OMC 1 912441 OMC 1 912442
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Part Number

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Crossover Reference Guide

SIERRA TO BARR (CONTINUED)

Discharge

Part Number 20-0000

-2".

Internal Water

SIERRA TO BARR (CONTIN	(UED)	SIERRA PART #	
SIERRA PART #	BARR PART #		BARR PART #
18-1904	OMC 1 980959	18-2146	MC 51 59830
18-1916	CR 20 97169	18-2554	MC47 27 41812
18-1919	CR 20 97387	18-2819	MC47 27 39915
18-1921	OMC 20 982680	18-2830	MC47 27 46401
18-1922	OMC 20 910380	18-2831	MC47 27 47590
18-1924	CR 20 97624	18-2832	MC47 27 48043
18-1927	CR 20 97772	18-2833	MC47 27 99777
18-1929	CR 1 97992	18-2844	MC47 27 48818
18-1930-1	VO 1 855387	18-2849	MC47 27 87105
18-1931-1	VO 1 835804	18-2850	OMC47 908935
18-1933	CR 1 97993	18-2854	1 0107
18-1935-1	VO 20 855384	18-2859	OMC47 311131
18-1940	CM 1 6677A	18-2860	OMC47 311130
18-1941	CM 1 6672B	18-2861	OMC47 311121
18-1945	CM 20 6674	18-2875	OMC47 908013
18-1946	CM 20 6672	18-2883	OMC47 907775
18-1950-1	MC 1 77234	18-2896	MC47 27 52546
18-1951-1	MC 1 77235	18-2743	MC47 27 94996
18-1952-1	MC 1 99746	18-2820	MC47 27 64818
18-1953	MC 1 87114	18-2902	MC47 27 33395
18-1954	MC 1 95862	18-2909	MC47 27 97757
18-1955	MC 1 96705	18-2917	MC47 27 53045
18-1956-1	MC 1 99798	18-2941	CM 1 6672D
18-1957	MC 1 89011	18-2949	CHV47 0000
18-1958	MC 1 65604	18-2971	VO47 835908
18-1959	MC 1 63122	18-4008	MC 20 60207
18-1960-1	MC 1 58759	18-4009	1 60252
18-1961	MC 1 52390	18-4360	CM 1 6672B P
18-1962	MC 1 65603	18-4363	FM 1 83P
18-1968	MC 29 47587	18-4364	20 0082P
18-1969	MC 29 60372	18-4367	MC47 27
18-1970-1	MC 20 98504	18-4394	99777A1
18-1971	MC 20 76351	18-4395	MC47 27
18-1972	MC 20 76325	18-4396	33395A1
18-1973	MC 20 55538	18-4397	MC47 27
18-1974-1	MC 20 98502	18-4398	35898A4
18-1975	MC 20 12076	18-4399	MC47 27
18-1976-1	MC 20 44354	18-4461	46401A1
18-1977	MC 29 47441		
18-1978	MC 20 76771	VOLVO TO BARR	
18-1983	CR 1 98243	VOLVO PART #	BARR PART #
18-1990	1 73813	824532-6	
18-1991	20 0089P	825599-4	VO 1 824532
18-1992-1	20 0087P	834438-4	VO 20 825599
18-1993	MC 29 78984	835804-6	VO 1 855387
18-1994	MC 29 87290	855384-4	VO 1 835804
18-1995	1 47368	855387-7	VO 20 855384
18-1997-1	CHV 1 83	856883-4	VO 1 855387
18-1998-1	FM 1 83	3857723	VO 1 835804
18-1999	20 0082	3863031	OMC 1 914034 OMC 20 913784
18-2104	MC 51 75832		01010 20 913/84
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Consumers are protected from manufacturers who attempt to unfairly chain the purchasers of their products to the continued purchase of their maintenance and repair products and authorized services. Congress has provided consumers with this protection under the Magnuson-Moss Warranty Act as well as specific provisions of the Federal Trade Commission Improvement Act.

IT'S THE LAW - KNOW YOUR RIGHTS!

Part Numbe

It's against the law for an original equipment manufacturer to inform consumers that their warranty would be void should they use other than genuine replacement parts or if service were to be preformed by anyone other than an authorized "OEM" dealer unless, of course, such parts and service were to be performed "Free of Charge" under the terms of the warranty.

The laws were enacted to grant the consumers and dealers the basic right to select replacement parts from competent manufacturers without fear of jeopardizing their warranty. The law directly provides the consumer the right of choice, the right to an affordable alternative choice of manufactured product. Of course, the original equipment manufacturer is not responsible for product failures or damages caused by product failures of product manufactured by others. Such damages become the responsibility of the company providing such products under the terms of their own warranties. Barr Marine by EDM originated the three-year limited warranty that has recently become the standard for all others to follow. Our warranty can be found in our catalog directly following this notice.

Barr Marine by EDM has been a manufacturer of Marine Engine Parts for seventy-three years. The company has and continues to manufacture marine engine parts for many of the original equipment manufacturers. For years, we have represented the affordable alternative choice for your needs. We thank you for your continued support!



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Part Numbe

8-1/2'



Three-year warranty on exhaust manifolds, risers and exhaust connectors manufactured by Barr Marine by EDM.

Unless specifically indicated otherwise, Barr Marine by EDM ("Manufacturer") warrants this product against defects in workmanship and material for three years from date of purchase by the original purchaser to the extent that Manufacturer will, at its option, replace or repair the product or any part thereof which in Manufacturer's judgment has such a defect, provided that written notice of such defect is received by Manufacturer at the address above within three years after date of purchase by the original purchaser. The Buyer shall return the product to Manufacturer, at Buyer's expense to the address above. Manufacturer's obligation does not include any cost of removal or reinstallation, and this warranty shall not apply if the product has been misused, abused, altered, neglected or improperly installed or repaired work by anyone other than the Manufacturer was a cause of the defect.

This Warranty does not extend to Barr Marine by EDM products used in racing or "high performance" applications. Any work done by others without notifying Barr Marine by EDM in advance of such performance and without written authorized shall automatically terminate buyer's rights or remedies against seller.

The warranties set forth above are the sole express warranties made by manufacturer with respect to this product or any thereof.

Any implied warranties, including without limitation any warranties of fitness or of merchantability, are hereby expressly limited in duration to the three-year period of this warranty.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty does not extend to anyone other than the original purchaser.

Notwithstanding anything to the contrary herein contained, if this product is specifically excluded or used for commercial purposes, rental, or other income-producing activities, then the duration of this warranty shall be one year from the date of purchase.

Manufacturer reserves the right to improve its products through changes in design or materials without being obligated to incorporate such changes in products of prior manufacture and to make changes at any time in design, materials, or parts of products without obligation or liability to owners or products of prior manufacture.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and may also have other rights, which vary from state to state.

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One-year warranty on exhaust manifolds, risers and connectors manufactured by Barr Marine by EDM (except for exhaust manifolds, risers and exhaust connectors, which are covered by a three-year warranty) then the duration of this warranty shall be one year from date of purchase.

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ONE YEAR LIMITED WARRA

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Unless specifically indicated otherwise, Barr Marine by EDM ("Manufacturer") warrants this product against defects in workmanship and material for one year form date of purchase by the original purchaser to the extent that Manufacturer will, at its option, replace or repair the product or any part thereof which in Manufacturer's judgment has such a defect, provided that written notice of such defect is received by Manufacturer at the address above within one year after date of purchase by the original purchaser. The Buyer shall return the product to Manufacturer, at Buyer's expense to the address above. Manufacturer's obligation does not include any cost of removal or reinstallation, and this warranty shall not apply if the product has been misused, altered, neglected or improperly installed or repaired work by anyone other than the Manufacturer was a cause of the defect.

This Warranty does not extend to Barr Marine by EDM products used in racing or "high performance" applications. Any work done by others without notifying Barr Marine by EDM in advance of such performance and without written authorization shall automatically terminate buyer's rights or remedies against seller.

The warranties set forth above are the sole express warranties made by manufacturer with respect to this product or any thereof.

Any implied warranties, including without limitation any warranties of fitness or merchantability, are hereby expressly limited in duration to the one-year period of this warranty.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty does not extend to anyone other than the original purchaser.

Notwithstanding anything to the contrary herein contained, if this product is specifically excluded or used for commercial purposes, rental, or other income-producing activities, then the duration of this warranty shall be one year from date of purchase.

Manufacturer reserves the right to improve its products though changes in design or materials without being obligated to incorporate such changes in products of prior manufacture and to make changes at any time in design, materials, or parts of products without obligation or liability to owners of products of prior manufacture.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary form state to state.

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Part Numbe